



Martin Matlin (3LC70) U.S. Environmental Protection Agency Region III 1650 Arch Street Philadelphia, PA 19103-2029

Via Certified Mail No. 7007 0710 0000 3856 5818

Re: Response to USEPA Request for Information Dated 24 May 2011

Sunoco, Inc.

EPA ID No. PAD002312791 Reference Number: C11-020

Dear Mr. Matlin:

Sunoco, Inc. (Sunoco) is supplying the following information in response to USEPA's letter dated May 24, 2011. In brief, that correspondence requested additional information and clarification related to issues from the September 28 and 29, 2010 U.S. Environmental Protection Agency (USEPA) inspection of this facility.

This letter is organized by presenting the exact text (shown in italics) and numbering sequence used in USEPA's May 24, 2011 correspondence, followed by Sunoco's response. All supporting documents are referenced by consecutive attachment numbers formatted with a number and letter. The number references the initial USEPA questions and the letters are used consecutively for the specific question.

- 1. At the time of the inspection, the containment area for Permitted Storage Pad A appeared to show flaking and cracking (see Photograph 19 of the report). Regarding this pad, please describe:
 - a. When the pad began cracking/flaking

For clarification, Sunoco acknowledges that there was cracking and flaking for the *surface* coating on the waste storage pad. However, the integrity of the overall concrete pad remains excellent. Per text from this facility's Part B permit, "the concrete storage area base was designed to have a minimum seven-inch thickness and a compressive strength of 3,500 psi, and was designed to be essentially impervious." Over the years since the installation of the pad, minor stress cracks have developed on occasion in the pad. In all cases, the cracks have been

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routed out at the surface, and filled with flexible sealer. At the time of the USEPA RCRA inspection the surface coating was flaking; however, there were no pad cracks or gaps that appeared capable of allowing liquids to leak or seep to subsurface media.

Sunoco has no records or other documentation demonstrating exactly when the surface coating began to show cracking or flaking.

b. If the pad has been repaired since the date of the inspection: state the date of completion of the repairs, a description of the work done, and the costs associated with the repairs

A work order request was submitted on September 8, 2010 (prior to the inspection) requesting that the on-site planning department address the surface flaking by contracting a company to "reseal and repaint" the waste storage pad. A copy of the work order routing document (Work Order RT025094) is included as Attachment 1A.

On October 21, 2010, Sunoco issued a purchase order to Service Painting Inc. to "Blast clean, resurface, and seal the drum park". The complete cleaning and recoating of the drum pad was accomplished between approximately October 31 and November 8, 2010. On November 11, 2010, Sunoco was invoiced \$14,000 for the recoating project. Service Painting's November 11 invoice notes the project is 100% complete. Copies of Sunoco's purchase order for the work, as well as a copy of the final invoice are included as Attachment 1B.

The pad is coated with two layers or Sherman Williams COR-COTE ® VEN GF (a cut sheet for the product is included as Attachment 1C). The first layer is applied directly to cleaned and properly prepared concrete. A second coat is then applied, and sand is broadcast over the second coat's surface before the material dries. The sand provides a slip resistance coating. The surface flaking observed during the inspection was from this surface slip resistance coating containing the sand mixture. The primary first coating layer was intact.

Sunoco is aware that fork truck traffic on the containment pad is eventually destructive to the coating. On many occasions, the slip resistance coating begins to peal up, long before the base coat delaminates from the concrete. The imperfections noted in the containment pad coating were the non-slip coating flaking off and not the primary coating.

c. If the repairs have not been completed: state the intended date of the repair work and the projected costs.

All repairs to the drum park are complete.

2. There appeared to be residue found around Boiler #1, its associated piping, on a nearby bucket, and on the floor nearby (see Photos 25-29). Regarding <u>each</u> of these areas of residue, please provide:

Sunoco is currently researching this finding and the associated requests for additional information. In June 2, 2011 phone and email communications between Paul Persing of this facility, and Martin Matlin of USEPA, Mr. Matlin agreed to an extension to provide select information. Sunoco will provide a complete response to this issue by July 15, 2011.

- 3. In the Quality Control Lab four 10gal red metal containers were found, all labeled as HW. Additionally, seven more red plastic containers were found, stated by the representative to contain excess samples. Please state the capacities of each of these seven plastic containers. Additionally, regarding the contents of each of these seven containers, please provide:
 - a. A detailed description of its source

Sunoco respectfully notes that the "four 10 gal red metal containers" referenced are actually six-gallon containers (see photo included as Attachment 3A). The metal containers are satellite collection points for spent gas chromatograph (GC) vials used during in-house quality assurance analyses. Two containers are designated for spent GC vials holding phenol; two containers are designated for GC vials holding other solvents or oils associated with the manufacturing of phenol. Internal operating procedures require operators to dispose of the spent vials in the proper containers following completion of the associated analytical testing. Please note that all four containers are in good condition, clearly marked as hazardous waste, compatible with the waste being stored, and kept closed except when additional waste is added. These containers are under the control of the lab chemist working in the area – and the laboratory is staffed 24-hours per day, seven-days per week. The maximum total volume of the four cans is 24 gallons. These containers meet all requirements of the Satellite Accumulation Area regulations defined in 40 CFR 262.34(c).

Further, Sunoco has a designated individual whose job includes the weekly emptying of these cans. All vials from the six-gallon cans are consolidated in 55-gallon drums located in the drum storage park. When the 55-gallon drums are full, they are sent out as one of two designated waste streams – either "Spent GC Vials" or "Spent Phenol Vials".

The "seven red plastic containers" are utilized as collection points to containerize excess quality-assurance samples and laboratory process chemicals, primarily including acetone,

cumene, alpha-methyl styrene, and by-products or co-products generated during the manufacturing of phenol. The mixture of chemicals is returned to the facility's onsite process stream for reuse and recycling.

Each container has a labeled capacity of five-gallons (see Attachment 3B). The entire contents of all the plastic containers are emptied into the onsite #3 Phenol Pit sump, where the liquid is *returned to the manufacturing process for reuse and recovery*. The contents of these containers are returned to the facility's process stream, "as is", and are ultimately refined to make additional product. Accordingly, pursuant to USEPA 40 CFR 261.2(e) these chemicals are not defined as a solid waste and therefore can not be considered a hazardous waste.

b. Its date(s) of generation

Small quantities of the chemical mixture are generated daily. Sunoco does not keep a log of specific generation dates or volumes.

c. State whether a "waste determination" and "LDR determination" has been made for the material

"Spent GC Vials" and "Spent Phenol Vials" are both designated hazardous waste streams and both require LDR forms when sent offsite for disposal. Both waste streams are profiled with Clean Harbors Environmental as hazardous waste. Copies of the respective profiles are included as Attachment 3C.

No "waste determinations" or "LDR determinations" are required for the solvents that are returned to the process because they are not solid wastes..

d. If a "waste determination" and "LDR determination" has been made, state when such a determination(s) was made and the results of such determination(s)

We maintain an electronic database demonstrating that "Spent GC Vials" and "Spent Phenol Vials" waste streams were profiled and sent offsite for disposal (with LDR determination) since 2001. Documentation prior to 2001 is not readily available.

No "waste determinations" or "LDR determinations" are required for the solvents that are returned to the process because they are not solid wastes.

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e. If the material has been determined to be "hazardous waste," please state the specific EPA Hazardous Waste Code(s) associated with such hazardous waste. If it has been determined not to be hazardous waste, explain the reasons for such determination.

"Spent GC Vials" carry waste codes D001, U002, and U055. "Spent Phenol Vials" carry waste codes U188.

No "waste determinations" or "LDR determinations" are required for the solvents that are returned to the process because they are not solid wastes.

f. State whether any hazardous waste determination made for such waste was based on the generator's knowledge of the process that generated the waste, or upon analytic results. If a determination was made on the basis of process knowledge, describe in detail the scientific rationale for such a determination. If the determination was based on analytical results, describe the sampling procedures and provide copies of any and all such results.

The hazardous waste determination for "Spent GC Vials" and "Spent Phenol Vials" is based on process knowledge. This facility has researched, developed the manufacturing procedures, and consistently manufactured the chemicals associated with these waste streams. The facility maintains a full-time staff of product development chemists, as well as a separate staff of quality assurance / quality control chemists. The material that ultimately comprises these waste streams is analyzed multiple times per day by state-of-the-art laboratory instrumentation for quality and consistency. Accordingly, Sunoco is qualified to make this waste determination based on process knowledge.

g. Please state if the material has been removed and/or shipped off-site and the date of such removal and/or shipment(s). If the material has not been shipped off-site, state its current location and explain why it has not been shipped off-site.

"Spent GC Vials" and "Spent Phenol Vials" are both sent offsite for disposal approximately every three to nine months. Attachment 3D summarizes the waste disposal events for these waste streams occurring over the last three years.

The non-hazardous spent solvents that are generated in the laboratory are not sent offsite for disposal.

h. If the material was shipped off-site, provide copies of all bills of lading, manifests (including but not limited to hazardous waste manifests), shipping invoices, and LDR notices and certifications that accompanied and/or refer to each off-site shipment of this waste.

Attachment 3D includes copies of manifests for the last three years, when "Spent GC Vials" and "Spent Phenol Vials" were sent offsite for disposal.

4. Some Universal Waste batteries were found in a shed in the "Boneyard" (Photos 33 & 34) at the time of the inspection. As the accumulation start dates for each of these batteries was unreadable, please provide the accumulation start date for each battery found. If any of the batteries has since been shipped offsite, please provide the date(s) and any relevant documentation of such shipment(s).

Sunoco is unable to quantitatively provide an accumulation start date for the batteries noted in the "boneyard" battery shed. However, it is our standard procedure to have *all* lead acid batteries removed from the shed in a single shipment, and on a frequency that ensures that none can be stored for more than one year. The last shipment prior to the photos being taken was June 16, 2010, and therefore the batteries could not have been stored more than approximately 14 weeks.

All the batteries noted at the time of the USEPA inspection were disposed of on October 13, 2010.

This facility disposes of universal waste, including lead-acid batteries, approximately every four months. Three years of waste manifests for battery disposal events are included as Attachment 4A.

5. Next to this shed several lead acid batteries were also found, all of which appear to have been weathered and one of which appeared to have leaked (Photos 35 & 36). Regarding each of these batteries, please provide:

a. Its date of generation

The referenced batteries were all associated with electric-powered golf carts that were removed from service before the inspection. The batteries were removed and retained when golf carts were taken out of service. Carts removed from service (such as those noted in the inspection) are utilized for spare parts to service other in-service golf carts. Though Sunoco did not test the batteries that were removed from the out of service carts, we have retained such used batteries in the past because we believed they may have remaining useful life and could be used in other carts.

b. Please state if the battery has been shipped off-site and the date of such shipment. If the battery has not been shipped off-site, state its current location and explain why it has not been shipped off-site.

To alleviate any uncertainty regarding whether these batteries could be reused, , Sunoco shipped all batteries offsite on October 13, 2010.

c. If the battery was shipped off-site, provide copies of all bills of lading, manifests (including but not limited to hazardous waste manifests), shipping invoices, and LDR notices and certifications that accompanied and/or refer to each off-site shipment of this waste.

This issue was address in question number 4. The requested manifests are included in Attachment 4A.

d. Please state if the material found leaking from one of the batteries has been cleaned up. If it has, state the date of such clean-up, the methods used, and the final destination of such material. If it has not been cleaned up, please state why.

One battery that was noted in the "bed" of a cart was leaking. Staining in the bed suggests all spilled liquid remained in the bed. At the time of disposal, no liquid was present. The golf cart has since been sent offsite as scrap metal. No additional cleanup up was required.

- 6. Also in the "Boneyard" the facility appears to maintain a drum decontamination area, in which was found a 55gal drum labeled as containing methanol and appearing to be full (Photo 37), as well as three blue drums labeled as containing "Caustic TBC 85% Water" (shown in Photo 38 after being over-packed). Regarding each of these containers, please provide:
 - a. A detailed description of its source

This facility utilizes methanol as antifreeze in some of the site's chilling water systems. Methanol is mixed with the water to lower the freezing point; the mixture is referred to as "brine".

When the system is recharged or a new batch of brine is introduced, the onsite material handler will stage six to eight full drums of methanol at the chiller. Production will then ad the methanol and water until the desired concentration is achieved. Empty methanol drums are ultimately moved from the chiller to the drum decontamination pad for cleaning and disposal.

A new brine batch was made up in the weeks prior to the facility RCRA inspection. The material handler correctly moved what were believed to be empty metal drums from the chiller to the decontamination pad. Inadvertently, however, the handler moved one of the drums containing methanol to the pad while the material was still in use.

Once discovered, the drum was removed from the pad and returned to inventory.

The two Caustic TBC drums contained a heel of chemical were intended to be steam cleaned, in preparation for disposal. In order to be conservative and expedite the disposal of the drums, Sunoco prepared the three drums of TBC to be sent as waste. Note that the material was initially packaged and labeled as hazardous waste. Upon further review prior to disposal,, Sunoco determined that the chemical was not hazardous waste and it was therefore shipped as non-hazardous.

b. Its date of generation

The TBC remaining in the drums was unused virgin product. The date of generation is unknown.

c. State whether a "waste determination" and "LDR determination" has been made for the contents

The material does not have characteristics of hazardous waste and did not contain specific component chemicals listed as hazardous waste. The chemical does have a basic pH; however the value is greater than pH 2.0. Accordingly, the material was not hazardous waste and no LDR determination is required.

d. If a "waste determination" and "LDR determination" has been made, state when such a determination(s) was made and the results of such determination(s)

The material was not hazardous waste and therefore no LDR determination is required.

e. If the contents have been determined to be "hazardous waste," please state the specific EPA Hazardous Waste Code(s) associated with each such hazardous waste. If they have been determined not to be hazardous waste, explain the reasons for such determination.

Not a hazardous waste; not applicable.

f. State whether any hazardous waste determination made for such waste was based on the generator's knowledge of the process that generated the waste, or upon analytic results. If a determination was made on the basis of process knowledge, describe in detail the scientific rationale for such a determination. If the determination was based on analytical results, describe the sampling procedures and provide copies of any and all such results.

Not a hazardous waste; not applicable.

g. Please state if the container has been shipped off-site and the date of such shipment(s). If the container has not been shipped off-site, state its current location and explain why it has not been shipped off-site.

The containers were shipped offsite on October 13, 2010.

h. If the container was shipped off-site, provide copies of all bills of lading, manifests (including but not limited to hazardous waste manifests), shipping invoices, and LDR notices and certifications that accompanied and/or refer to each off-site shipment of this waste.

A copy of the manifest for the disposal of this material is included as Attachment 6A. Note that the three drums sent for disposal had a combined weight of 375 pounds. Considering that the 55-gallon drums were over packed into 85-gallon drums, Sunoco estimates that the weight of the empty drums would be approximately 100 to 110 pounds each – or 300 to 330 pounds, combined. Forty-five to 75 pounds of TBC would equal six to ten gallons of chemicals.

7. Regarding daily tank inspections, no logs could be found for the following tanks and dates:

Tank VT-130: between 11/15/09 and 11/23/09, and between 12/13/09 and 12/21/09

Tank VT-132: between 11/15/09 and 11/23/09

<u>Tank VT-245</u>: between 11/15/09 and 11/23/09, and between 12/13/09 and 12/21/09

<u>Tank VT-602</u>: between 11/15/09 and 11/23/09, between 12/13/09 and 12/21/09, and between 9/19/10 and 9/26/10

<u>Tanks VT-621 & VT-622</u>: between 10/1/90 and 10/18/09, between 11/15/09 and 11/23/09, between 12/13/09 and 12/21/09, and on 1/14/10

For each of the above tanks and dates, please state:

a. Did the Facility inspect the tank on a daily basis during those times?

The facility did inspect the tanks on a daily basis during the referenced times. Upon further review of facility inspection records, inspection sheets were located for every specific event noted above. Copies of the inspection records are included as Attachment 7A.

b. If so, have records been found to verify such inspections? Please submit copies of such documentation if available.

Copies of the inspection records were located and are included as Attachment 7A.

c. If not, please state the reason(s) why inspections were not completed for each of the dates listed.

Not applicable.

- 8. Regarding the Facility's "VT-132 Hazardous Waste Tank Log Sheet," the log for 6/13/08 states that the "Ending Level" of HW in this tank was five feet. It further includes the remarks: "Removed liquid Clean Harbor will remove heel." On 3/12/09 another log then states that the Ending Level is five feet eleven inches, with the remark "OOS for sludge removal." The next two logs, for 2/16/10 and 5/4/10, give the Ending Level as 2.5 (no units) with the remarks: "Varec broke" and "Tank MT." Finally, the last log included, for 7/26/10, states that the tank is empty. Regarding this tank please provide the following:
 - a. Has tank VT-132 been closed? If so, please state the date of closure and submit all relevant documentation of work completed showing the tank has been closed in accordance with 40 C.F.R. § 265.197.

Tank VT-132 is not closed. The tank was completely emptied and cleaned on two non-consecutive days of field work. Clean Harbors Environmental Services began cleaning the tank on February 25, 2009 and completed the cleaning on March 30, 2009. The tank is currently empty, locked out, and has not been utilized for the storage of waste since it was cleaned. The vessel continues to be inspected and maintained as required by applicable tank regulations and can be put into service at any time. Copies of the Clean Harbors' field services work sheets for the February 25 and March 30 cleaning events are included as Attachment 8A.

b. What specifically was done to the tank between the dates of 3/12/09 and 2/16/10 to change its recorded Ending Level from 5'11" to 2.5? Please include the date(s) work was conducted and a specific description of the work. For any material removed from the tank please provide the following:

On March 30, 2009, the 5' 11" of material remaining in the tank was pumped out and sent offsite as hazardous waste. All wash water associated with the tank cleaning was also collected and sent offsite for disposal.

The 2/16/10 entry on the tank inspection log sheet notes "Varec broke" which is a reference to the Verec © liquid level meter. During the tank cleaning, the meter was damaged and the default reading currently shows 25 feet (rather than "2.5" as noted in USEPA's question). Although the log sheet notes "25" as both the beginning level and the ending level because the faulty Verec © meter so indicated, the sheet also notes "Tank MT" (empty) in the comments section. As noted in our response to 8.a above, the tank remains empty and ready for service.

i. A detailed description of its source

The tank was previously utilized to collect phenol residue sludge; this waste material is generated during the manufacturing of phenol.

ii. Its date of generation

The tank has been empty since March 30, 2009.

iii. State whether a "waste determination" and "LDR determination" has been made for the material

The material that was previously in the tank was composed of distillation bottom tars from the production of phenol and acetone from cumene. By definition, that material was a hazardous waste and an LDR was required.

iv. If a "waste determination" and "LDR determination" has been made, state when such a determination(s) was made and the results of such determination(s)

This material has been designated a hazardous waste since the onset of the USEPA RCRA program. The exact date is not available.

v. If the material has been determined to be "hazardous waste," please state the specific EPA Hazardous Waste Code(s) associated with each such hazardous waste. If they have been determined not to be hazardous waste, explain the reasons for such determination.

Hazardous waste stored in tank VT-132 carries the primary hazardous waste code K022.

vi. State whether any hazardous waste determination made for such waste was based on the generator's knowledge of the process that generated the waste, or upon analytic results. If a determination was made on the basis of process knowledge, describe in detail the scientific rationale for such a determination. If the determination was based on analytical results, describe the sampling procedures and provide copies of any and all such results.

The hazardous waste determination for Phenol Residue Liquids is based on process / generator knowledge, insomuch as the waste is from a specific RCRA listed source and carries a "K" code.

vii. Please state if the material has been shipped off-site and the date of such shipment(s). If the material has not been shipped off-site, state its current location and explain why it has not been shipped off-site.

Phenol residue contained in VT-132 was last shipped offsite on March 30, 2009 as part of the tank cleaning process. Normally material from this tank is pumped into VT-621 or VT-622 for feeding the material as a fuel into our onsite boilers. Two individual bulk shipments were sent on the same day. This includes the actual residue from the tank as well as all the wash water from cleaning the tank. Copies of the two respective manifests are included as Attachment 8B.

viii. If the material was shipped off-site, provide copies of all bills of lading, manifests (including but not limited to hazardous waste manifests), shipping invoices, and LDR notices and certifications that accompanied and/or refer to each off-site shipment of this waste.

Copies of the respective manifests and LDR forms are included as Attachment 8B.

c. Was any other material removed from the tank subsequent to 2/16/10? If so, please state the date(s) of such removal and for each removal activity please answer each of the above questions in 8.b.i.-viii. referring to the material removed.

See above responses. No material has been introduced to VT-132 since 3/30/09; it has remained empty since 3/30/09.

9. Regarding the Facility's "VT-602 Hazardous Waste Tank Log Sheet," the log for 1/31/09 states that the "Ending Level" of HW in this tank was nine inches. The next log on 6/19/09 states that the Ending Level is zero. Regarding this tank please provide the following:

a. Has tank VT-602 been closed? If so, please state the date of closure and submit all relevant documentation of work completed showing the tank has been closed in accordance with 40 C.F.R. § 265.197.

VT-602 is actively in use.

b. What specifically was done to the tank between the dates of 1/31/09 and 6/19/09 to change its recorded Ending Level from nine inches to zero? Please include the date(s) work was conducted and a specific description of the work. For any material removed from the tank please provide the following:

There was no specific work done to this tank between 1/31/09 and 6/19/09. Tank VT-602 is equipped with a liquid-level transmitter that automatically records the tank level to the site's data management system. A review of the DMS data shows that the tank was pumped down on January 31, 2009 from 1.9' to 0.9'. On April 1, 2009, the tank was pumped from 1.2' to 0.0' and on June 19, 2001, it was pumped from 1.9' to 0.0'. The April 1, 2009 transfer was not manually recorded on the VT-602 log sheet.

We do not know why the tank was not pumped to 0.0' during the January 31, 2009 transfer. However, it is believed that the tank may have contained oil and a small amount of separate-phase water. Under such circumstances, the operator would likely pump out the oil and leave the "heel", which contains primarily water.

i. A detailed description of its source

Under normal operating conditions, groundwater and light non-aqueous phase liquid (LNAPL) are recovered from the site's active pumping wells and directed to tank VT-601. VT-601 is a decanting tank; water off the bottom of the tank is directed to the air stripper tower. The impacted water is <u>not</u> classified as a hazardous waste. The recovered oil rises to the top of VT-601 and gravity drains to VT-602. The recovered oil is classified as hazardous waste. When VT-602 is full – or every 90 days (which ever comes first), the recovered oil is pumped to VT-621 / VT-622. These two tanks contain waste phenol residue used as a fuel for boilers BL-701 and BL-702. The recovered LNAPL mixes with the phenol residue and is ultimately destroyed in the onsite boilers. These activities are specifically permitted in the site's Part B permit.

ii. Its date of generation

The rate at which waste is generated and introduced to this tank is highly variable. Generation is relative to several factors including rain fall, water table elevation, and operations of the pumping wells. Accordingly, a quantitative date of generation cannot

be determined with specificity. To ensure compliance with storage time limits, the tank is emptied on approximately a 60 to 80-day basis.

iii. State whether a "waste determination" and "LDR determination" has been made for the material

Under normal operating conditions, waste is not removed from this tank for off-site disposal. Recovered oil is burned in the facility's hazardous waste-fired boilers. A relatively insignificant volume of water that may accumulate in the tank is sent to VT601 and eventually treated in the air stripper column. The facility's Part B permit specifically allows for the destruction of recovered oil in waste-fire boilers.

iv. If a "waste determination" and "LDR determination" has been made, state when such a determination(s) was made and the results of such determination(s)

Waste from this tank is not sent offsite; there is no specific LDR determination.

iv. If the material has been determined to be "hazardous waste," please state the specific EPA Hazardous Waste Code(s) associated with each such hazardous waste. If they have been determined not to be hazardous waste, explain the reasons for such determination.

The material in this tank is an indefinable combination of oils and LNAPL recovered from the onsite groundwater wells. The LNAPL is coded as D001 (flammability).

vi. State whether any hazardous waste determination made for such waste was based on the generator's knowledge of the process that generated the waste, or upon analytic results. If a determination was made on the basis of process knowledge, describe in detail the scientific rationale for such a determination. If the determination was based on analytical results, describe the sampling procedures and provide copies of any and all such results.

The determination that the material will flash was likely based on historical quantitative analysis. This analysis was first completed over 20 years ago; exact lab data is not readily available

vii. Please state if the material has been shipped off-site and the date of such shipment(s). If the material has not been shipped off-site, state its current location and explain why it has not been shipped off-site.

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Under normal operating conditions, this material is not shipped off site for disposal. The material is ultimately destroyed in the onsite boilers BL-701 and BL-702.

viii. If the material was shipped off-site, provide copies of all bills of lading, manifests (including but not limited to hazardous waste manifests), shipping invoices, and LDR notices and certifications that accompanied and/or refer to each off-site shipment of this waste.

Not applicable.

10. At the time of EPA's inspection, did the Facility maintain a written job description for each of the positions related to hazardous waste management, which includes the requisite skill, education, or other qualifications, and duties of Facility personnel assigned to each position? If so, please provide a copy of the job descriptions being maintained at the time of the inspection. If a list of job descriptions was not maintained at the time of the inspection, provide a copy of any such list created since the inspection, identifying the date on which such list was compiled.

Sunoco is currently researching the request for additional information. In June 2, 2011 phone and email communications between Paul Persing of this facility, and Martin Matlin of USEPA, Mr. Matlin agreed to an extension to provide select information. Sunoco will provide a complete response to this issue by July 15, 2011.

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I certify that the information contained in this response to EPA's request for information and the accompanying documents is true, accurate and complete. As to the identified portions of this response for which I cannot personally verify their accuracy, I certify under penalty of law that this response and all attachments were prepared in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Title:

Signature: William Robelsoft
Name: WILLIAM LOOSBALGIT

OPERATIONS MAUAGER

If you have any questions concerning this matter, please contact Paul Persing at (215) 807-8453.

Sincerely,

William Rodebaugh

Wie Rill

Operations Manager

Attachments

Attachment 1A Work Order for Recoating of Waste Pad

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Attachment 1B Purchase Order for Recoating of Waste Pad and Final Vendor Invoice

Requisition RT025094

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Recommended Supplier: SERPAI00 SERVICE PAINTING INC Manufacturer: Part Number:				No Substitut	es:		equester: mai roved By : mai Buyer:			
	Charges		Work Order	Acco	unt	Area	Depar	tment	Amount	
		RTO	25094	5102321		RCVSYS	46163	3540	14,000.00)

Requisition: RT025094 Total Extended Cost: 14,000.00

- NICY GARAVELIS -- 416-226-5011-

SERVICE PAINTING, INC.

P.O. Box 433 • Marcus Hook, PA 19061 • Tel: 610.497.4700 • Fax: 610.497.0723

DATE:

11/11/10

INVOICE NO.: 11618-1S-01

TERMS:

NET 30 DAYS

Contract # FKS0006668-000(

000

COMPANY:

Sunoco, Inc. (R&M)

Frankford Plant

FIELD ENGINEER: Brian Makowski

Margaret & Bermuda Sts Philadelphia, PA 19137

RE:

Furnished Labor, Materials, Equipment, Etc., to Complete Work On:

Drum Lay Down Area:

Contract Amount:

14,000.00

Completed to date 100%

14,000.00

Amount Due This Invoice:

14,000.00

proved wshi

Attachment 1C Cut Sheet for Sherman Williams COR-COTE ® VEN GF (Waste Storage Pad Surface Coating)



Protective & Marine **Coatings**

COR-COTE® VEN GF **GRAPHITE FILLED VINYL ESTER**

PART A PART B PART B

B88A30 B88R99 B88V99

970C949

RED CHP - CUMENE HYDROGEN PEROXIDE (CATALYST)
CLEAR CHP - CUMENE HYDROGEN PEROXIDE (CATALYST)

CHARCOAL GRAY Wax Solution

PRODUCT INFORMATION

RECOMMENDED SYSTEMS

Dry Film Thickness / ct. Mils (Microns)

Steel (coating, lining): Medium Film Lining

Corobond Vinyl Ester Primer 2 0-3.0 (50-75)

1 ct. Poly-Glass Putty as required for filling pits and transitioning sharp edges, weld seams, etc.

Cor-Cote VEN GF 15 0-20.0 (375-500)

Cor-Cote VEN GF with Wax 15.0-20.0 1 ct. (375-500)Solution

Concrete (lining, containment, flooring): Medium Film Lining

Corobond Vinyl Ester Primer 3.5-4.5 (88-112)

Poly-Glass Putty as required for filling voids and bugholes to provide a continuous substrate

Cor-Cote VEN GF 1 ct 15.0-20.0 (375-500)

Cor-Cote VEN GF with Wax 15.0-20.0 (375-500) 1.01 Solution

Concrete (conductive lining, containment, flooring): Medium Film Lining

Corobond ConductiveVinyl Ester 3.5-4.5 (88-112)

1 01 Poly-Glass Putty as required for filling voids and bugholes to provide a continuous substrate.

Cor-Cote VEN GF 15.0-20.0 (375-500)1 ct

1 ct. Cor-Cote VEN GF with Wax 15.0-20.0 (375-500)Solution

The systems listed above are representative of the product's use, other systems may be appropriate

SURFACE PREPARATION

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion

Refer to product Application Bulletin for detailed surface preparation information.

Minimum recommended surface preparation:

Iron & Steel:

SSPC-SP6/NACE 3, 2 mil Atmospheric

(50 micron) profile

SSPC-SP10/NACE 2, 2-3 mil Immersion:

(50-75 micron) profile

Concrete & Masonry

Atmospheric: SSPC-SP13/NACE 6, or ICRI

No. 310.2, CSP 3-5 SSPC-SP13/NACE 6-4.3.1 or 4.3.2or **Immersion**

ICRI No. 310.2, CSP 3-5

	Surface Preparation Standards							
	Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE			
White Metal		Sa 3	Sa 3	SP 5	1			
Near White Metal		Sa 2.5	Sa 2.5	SP 10	5			
Commercial Blast		Sa 2	Sa 2	SP 6	3			
Brush-Off Blast		Sa.1	Sa 1	SP 7	4			
Hand Tool Cleaning	Pusted	C St 2	C St 2	SP 2				
marks mar caparand	Pitted & Pusted	D St 2	D St 2	SP2				
Power Tool Cleaning	Pusted	CSt3	C St 3	SP 3				
Land too clemmin	Pitterl & Rusterl	DS1:1	D St 3	SP3	·			

TINTING

Do not tint

APPLICATION CONDITIONS

50°F (10°C) minimum, 90°F (32°C) Temperature

maximum

(air, surface, material) At least 5°F (2.8°C) above dew point 85% maximum

Relative humidity:

Refer to product Application Bulletin for detailed application information

ORDERING INFORMATION

Packaging

Part A 1 gallon (3,78L) and 5 gallons (18.9L) Part B

1 gallon (3.78L)

SAFETY PRECAUTIONS

Fieter to the MSDS sheet before use

Published technical data and instructions are subject to change without notice Contact your Sharwin-Williams representative for additional technical data and instructions.

WARRANTY

The Sherwin-Williams Company warrants our products to be tree of manufactur ing detects in accord with applicable Sherwin-Williams quality control procedures Liability for products proven detective, if any, is limited to replacement of the detective product or the refund of the purchase price paid for the detective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS. EXPRESSED OR IMPLIED. STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MER-CHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin Williams Company, Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin



Protective Marine **Coatings**

COR-COTE® VEN GF GRAPHITE FILLED VINYL ESTER

PART A PART B PART B B88A30 970C949

CHARGOAL GRAY B88R99 RED CHP - CUMENE HYDROGEN PEROXIDE (CATALYST)
B88V99 CLEAR CHP - CUMENE HYDROGEN PEROXIDE (CATALYST) Wax Solution

Revised 11/10

APPLICATION BULLETIN

TRM 49

SURFACE PREPARATIONS

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion

Iron & Steel (immersion service)

Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils /50 microns). Remove all weld spatter and round all sharp edges. Prime any bare steel the same day as it is cleaned or before flash rusting occurs.

Iron & Steel (atmospheric service)

Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Commercial Blast Cleaning per SSPC-SP6/NACE 3. For better performance, use Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils / 50 microns). Prime any bare steel the same day as it is cleaned or before flash rusting occurs

Concrete and Masonry

For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No. 310.2, CSP 3-5 Surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days @ 75°F (24°C). Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, dirt, form release agents. moisture curing membranes, loose cement and hardeners. Fill bug holes, air pockets and other voids with Steel-Seam FT910. Primer required.

If surface deterioration presents an unacceptably rough surface, prime with Corobond Vinyl Ester Primer—Patch and resurface with Poly-Glass Putty.

Fill all cracks, voids and bugholes with Poly-Glass Putty (over Corobond Vinyl Ester Primer)

Follow the standard methods listed below when applicable: ASTM D4258 Standard Practice for Cleaning Concrete. ASTM D4259 Standard Practice for Abrading Concrete. ASTM D4260 Standard Practice for Etching Concrete. ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete.

SSPC-SP 13/Nace 6 Surface Preparation of Concrete. ICRI No. 310.2 Concrete Surface Preparation

Concrete, Immersion Service:

For surface preparation, refer to SSPC-SP13/NACE 6, Section 4.3.1 or 1.3.2 or ICRI No. 3.10.2, CSP 3-5.

Surface Preparation Standards							
	Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE		
White Metal		Sa 3	Sa 3	SP 5	1		
Near White Metal		Sa 2.5	Sa 2.5	SP 10	2		
Commercial Blast		Sa 2	Sa 2	SP 6	3		
Brish-Off Blast		Sa !	Sal	SP 7	4		
Land Tool Champion	Plasted	C St 2	CSE2	SPR			
Hand Tool Cleaning	Pitted & Rusted	D St 2	D St 2	SPR			
T	Diatost	C St 3	CSI3	SP 3			
Power Tool Cleaning	Filted & Busted	D St.3	D St 3	SP 3			

APPLICATION CONDITIONS

Temperature

50°F (10°C) minimum, 90°F (32°C)

(air, surface, material)

At least 5°F (2.8°C) above dew point

Relative humidity:

85% maximum

APPLICATION EQUIPMENT

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

ReductionNot recommended

CleanupMEK. R6K10

Catalyst Injection Spray:

Pump.... Catalyst injection (external mixing) Pump Ratio30:1 with catalyst pump Polycraft or equivalent Tip Orifice...... 035" - .045" Fan Width.... 40 degrees Fluid Pressure..... 2000 - 3000 psi Filter Screen Filters must be removed

Brush:

Brush.....Natural bristle for applications in small areas

Roller:

Squeegee:

Squeegee. For horizontal applications followed by back roll with medium nap roller

If specific application equipment is not listed above, equivalent equipment may be substituted



ULLUA PLALE PLANALE

Protective Marine **Coatings**

COR-COTE® VEN GF GRAPHITE FILLED VINYL ESTER

PART A PART B PART B

B88A30 970C949

CHARCOAL GRAY B88R99 Red CHP - CUMENE HYDROGEN PEROXIDE (CATALYST)
B88V99 CLEAR CHP - CUMENE HYDROGEN PEROXIDE (CATALYST) WAX SOLUTION

APPLICATION BULLETIN

TRM.49

APPLICATION PROCEDURES

Surface preparation must be completed as indicated

For detailed installation instructions, refer to the Installation Procedures for the respective system type in the ControlTech Technical Resource Manual

Mixing Instructions: Premix Part A component separately, using a low-speed drill and Jiffy Blade model ES mixer. Make certain no pigment or graphite flake remains on the bottom or sides of the can. Use CHP catalyst at the rate of 2.0 - 4.0 fluid oz. per gallon (3.78L) of Part A. depending on environmental conditions. Mix with low-speed drill and Jiffy Blade model ES mixer for three minutes and until uniform. and until uniform

For topcoat only:
Add 970-C-949 Wax Solution at the rate of 3 - 4 oz per gallon (3.78L) of Part A to obtain a completely tack free surface. Add wax solution before adding catalyst. If wax solution is cloudy, it will clear with gentle warming. DO NOT USE FLAME TO HEAT THE WAX SOLUTION.

Apply paint at the recommended film thickness and spreading rate as indicated below

Recommended Spreading Rate per coat:						
	Minimum Maximum					
Wet mils (microns)	20.0 (500)	25.0 (625)				
Dry mils (microns)	15.0 (375)	20.0 (500)				
~Coverage sq ft/gal (m²/L)	64 (1.6)	80 (2.0)				
Theoretical coverage sq ft/gal	1600 (39.2)					

Drying Schedule @ 20.0 mils wet (500 microns):							
	@ 60°F/16°C	@ 73°F/23°C	@ 90°F/32°C				
		50% RH					
To touch:	16 hours	6 hours	3 hours				
To recoat:							
minimum:	12 hours	3 hours	2 hours				
maximum*:	4 days	72 hours	48 hours				
To cure:	48 hours	24 hours	16 hours				
"If uncertain, test not become tacky							
recoating.	, surface must be	e lightly blasted o	r sanded prior to				
If maximum recoal	time is excepted	i abrade curtace	hefore recoating				

f maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.

Pot Life: 30-60 minutes Sweat-in-time: Not required

Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating

CLEAN UP INSTRUCTIONS

Clean spills and spatters immediately, with MEK, R6K10. Clean, tools immediately after use with MEK, R6K10. Follow, manufacturer's safety recommendations when using any solvent.

DISCLAIMER

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Performance Tips

For concrete, always perform Calcium Chloride test as per ASTM F1869. Do not proceed with MVE >3 lbs.

For steel, stripe coat all chine, welds, bolted connections, and sharp angles to prevent early failure in these areas.

Pot life of this material is short. Working time can be extended by mixing small batches and by getting material out of mixing containers and on to the working surface in desired film thickness as quickly as possible.

Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or po-rosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic conditions, and excessive film build.

For immersion applications: Holiday test prior to application of Cor-Cote VEN GF in accordance with ASTM D5162 for steel or ASTM D4787 for concrete. Cor-Cote VEN GF is conductive and can not be spark tested. Set voltage in accordance with the manufacturer's recommendation. Repair holidays found prior to application of final coat.

When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at a right angle. In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with MEK, R6K10.

Store in a temperature controlled environment, 50°F (10°C) to 80°F (26°C), and out of direct sunlight. Keep resins, catalysts, and solvents separated from each other and away from sources of ignition.

Do not apply material beyond recommended pot life

Do no mix previously catalyzed material with new

Consult your Sherwin-Williams representative for specific applica-tion and performance recommendations.

Refer to Product Information sheet for additional performance characteristics and properties.

SAFETY PRECAUTIONS

Refer to the MSDS sheet before use

Published technical data and instructions are subject to change without notice Contact your Sherwin-Williams representative for additional technical data and instructions

WARRANTY

The Sherwin-Williams Company warrants our products to be free of manufacturing detects in accord with applicable Sherwin-Williams quality control procedures Liability for products proven defective, if any, is limited to replacement of the detective product or the retund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MER-CHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

MATERIAL SAFETY DATA SHEET

B88A30 06 00 DATE OF PREPARATION

May 1, 2011

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER

B88A30

PRODUCT NAME

COR-COTE® VEN GF - Graphite Filled Vinyl Ester, Charcoal Gray

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY

101 Prospect Avenue N.W. Cleveland, OH 44115

Telephone Numbers and Websites

COUNTY TO THE COUNTY OF THE CO	
Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902
	www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency	(800) 424-9300
for Chemical Emergency ONLY (spi	ill leak fire exposure or accidenti

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
33	100-42-5	Styrene		
		•		(Styrene polymerizes when catalyzed
		ACGIH TLV	20 PPM	4.3 mm
		ACGIH TLV	40 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	215 PPM CEILING	
3	79-41-4	Methacrylic Acid		
		ACGIH TLV	Not Available	1 mm
		OSHA PEL	Not Available	
2	7631-86-9	Amorphous Silica		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	6 mg/m3 as Dust	
4	13463-67-7	Titanium Dioxide		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	1
21	7782-42-5	Graphite		
		ACGIH TLV	2 MG/M3	
		OSHA PEL	2,5 MG/M3	

SECTION 3 — HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists,

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

HMIS	odes
Health	3,
Flammability	2
Reactivity	2

B88A30

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11

SECTION 4 - FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water.

Remove contaminated clothing and launder before re-use

INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet,

INGESTION: Do not induce vomiting. Get medical attention immediately.

SECTION 5 - FIRE FIGHTING MEASURES

 FLASH POINT
 LEL
 UEL
 FLAMMABILITY CLASSIFICATION

 130 F PMCC
 1.1
 6.1
 Combustible, Flash above 99 and below 200 F

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat

Application to hot surfaces requires special precautions

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area

Remove with inert absorbent.

SECTION 7 — HANDLING AND STORAGE

STORAGE CATEGORY

DOL Storage Class II

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are COMBUSTIBLE. Keep away from heat and open flame.

Consult NFPA Code, Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910;94, 1910;107, 1910;108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

 PRODUCT WEIGHT
 10.22 lb/gal
 1224 g/l

 SPECIFIC GRAVITY
 1.23

 BOILING POINT
 293 - 320 °F
 145 - 160 °C

 MELTING POINT
 Not Available

VOLATILE VOLUME 47%

EVAPORATION RATE Slower than either

VAPOR DENSITY Heavier than air

SOLUBILITY IN WATER N.A.

SECTION 10 - STABILITY AND REACTIVITY

STABILITY — Stable CONDITIONS TO AVOID

Elevated temperature

INCOMPATIBILITY

Contamination with polymerization catalysts such as peroxides and strong acids. Do not put any catalyzed product back into the can of uncatalyzed product

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

SECTION 11 - TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Styrene is listed by IARC as a possible human carcinogen based on "inadequate evidence" in humans, "limited evidence" in animals, and the fact that it is metabolized to styrene oxide, which has been shown to induce cancer in animals. However, studies of humans exposed for long periods of time to styrene have not demonstrated any carcinogenic effect.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

TOXICOLOGY DATA

CAS No.	Ingredient Name				
100-42-5	Styrene				
	•	LC50 RAT	4HR	Not Available	
		LD50 RAT		5000 mg/kg	
79-41-4	Methacrylic Acid				
	•	LC50 RAT	4HR	Not Available	
		LD50 RAT		2200. mg/kg	
7631-86-9	Amorphous Silica	**************************************			
	·	LC50 RAT	4HR	Not Available	
		LD50 RAT		Not Available	
13463-67-7	Titanium Dioxide				
		LC50 RAT	4HR	Not Available	
		LD50 RAT		Not Available	
7782-42-5	Graphite				
		LC50 RAT	4HR	Not Available	
		LD50 RAT		Not Available	

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

SECTION 14 - TRANSPORT INFORMATION

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport.

US Ground (DOT)

May be Classed as a Combustible Liquid for U.S. Ground UN1263, PAINT, 3, PG III, (ERG#128)

DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

Styrene manamer 1000 lb RQ

Bulk Containers may be Shipped as (check reportable quantities):

UN1263, PAINT, COMBUSTIBLE LIQUID, PG III, (ERG#128)

Canada (TDG)

May be Classed as a Combustible Liquid for Canadian Ground.

UN1263, PAINT. CLASS 3. PG III. (ERG#128)

5 Liters (1.3 Gallons) and Less may be Shipped as Limited Quantity

UN1263, PAINT, CLASS 3, PG III, (54 C c c), EmS F-E, S-E, ADR (D/E)

IATA/ICAO

UN1263, PAINT, 3, PG III

SECTION 15 - REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-42-5		33	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer.

TSCA CERTIFICATION

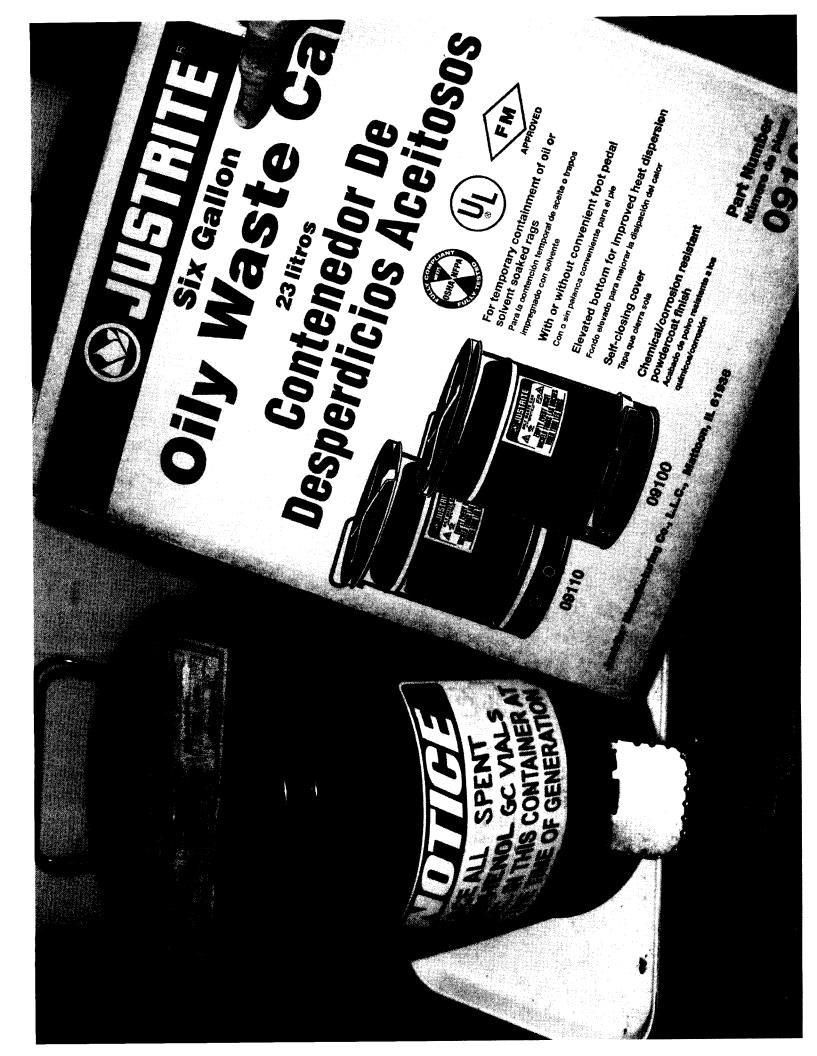
All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory

SECTION 16 — OTHER INFORMATION

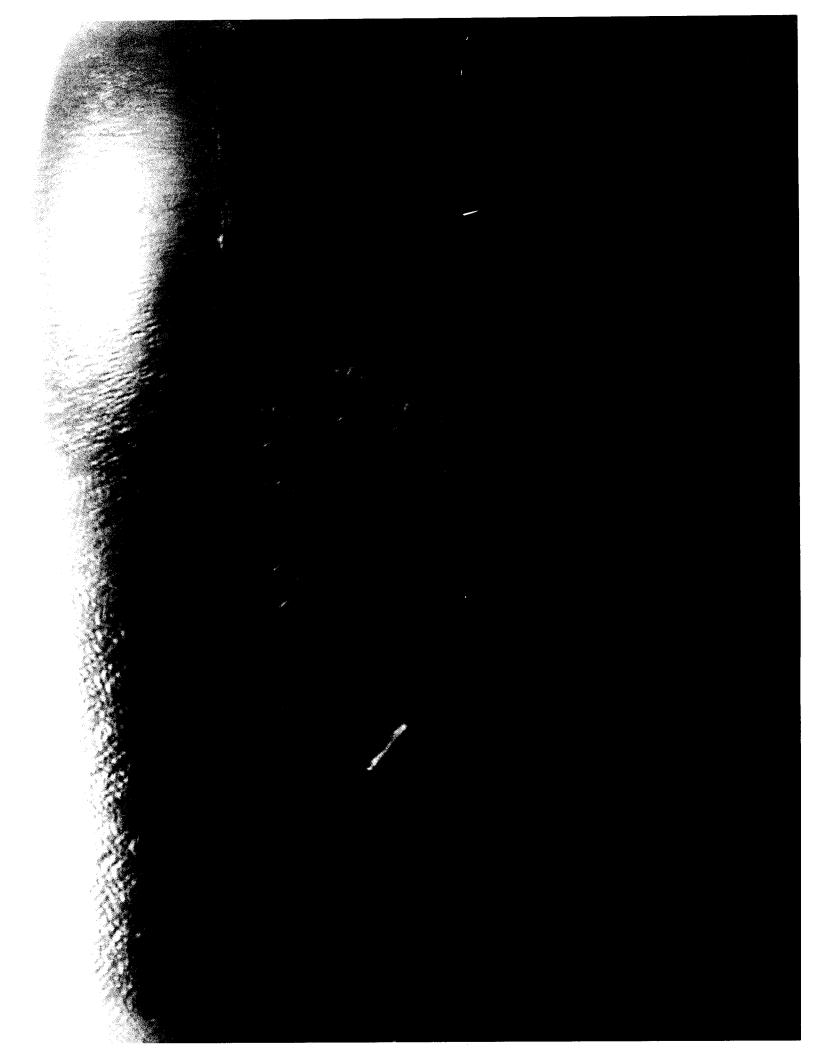
This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially after the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

Attachment 3A Photo of Metal Safety Can Used for Waste Collection



Attachment 3B Photo Showing Capacity of Five-Gallon Plastic Cans



Attachment 3C
Profiles for "Spent GC Vials" and "Spent Phenol
GC Vials"



WASTE MATERIAL PROFILE SHEET

Clean Harbors Profile No. L339743

A. GENERAL INFORMATION GENERATOR NAME Sunoco Inc GENERATOR EPA ID #/REGISTRATION # PAD002312791 STATE/PROVINCE ZIP/POSTAL CODE GENERATOR CODE (Assigned by Clean Harbors) CITY Philadelphia PA 19137 SU0285 ADDRESS Margaret and Bermuda Street PHONE: (215) 807-8442 CUSTOMER CODE (Assigned by Clean Harbors) SU0285 CUSTOMER NAME: Sunoco Inc STATE/PROVINCE ZIP/POSTAL CODE ADDRESS Margaret and Bermuda Street CITY Philadelphia PA 19137 **B. WASTE DESCRIPTION** WASTE DESCRIPTION: Spent GC vials PROCESS GENERATING WASTE Lab analysis IS THIS WASTE CONTAINED IN SMALL PACKAGING CONTAINED WITHIN A LARGER SHIPPING CONTAINER? No C. PHYSICAL PROPERTIES (at 25C or 77F) NUMBER OF PHASES/LAYERS VISCOSITY (If liquid present) COLOR PHYSICAL STATE SOLID WITHOUT FREE LIQUID . 2 3 TOP 25.00 1 - 100 (e.g. Water) Varies POWDER 101 - 500 (e.g. Motor Oil) MIDDLE 0.00 MONOLITHIC SOLID % BY VOLUME (Approx.) LIQUID WITH NO SOLIDS воттом 501 - 10,000 (e.g. Molasses) 75.00 LIQUID/SOLID MIXTURE > 10,000 % FREE LIQUID 0.00 - 25.00 ODOR % SETTLED SOLID 0.00 - 75.00 TOTAL ORGANIC BOILING POINT °F (°C) MELTING POINT °F (°C) NONE % TOTAL SUSPENDED SOLID CARBON <= 95 (<=35) MILD SLUDGE < 140 (<60) <= 1% 95 - 100 (35-38) STRONG GAS/AEROSOL 140-200 (60-93) 1-9% 101 - 129 (38-54) Describe: > 200 (>93) >= 10% >= 130 (>54) FLASH POINT °F (°C) SPECIFIC GRAVITY ASH BTU/LB (MJ/kg) pΗ < 0.8 (e.g. Gasoline) < 73 (<23) <= 2 < 2,000 (<4.6) < 0.1 > 20 0.8-1.0 (e.g. Ethanol) 2.000-5.000 (4.6-11.6) 73 - 100 (23-38) 2.1 - 6.90.1 - 1.0Unknown 1.0 (e.g. Water) 101 -140 (38-60) 5,000-10,000 (11.6-23.2) 7 (Neutral) 1.1 - 5.0141 -200 (60-93) > 10,000 (>23.2) 7.1 - 12.4 1.0-1.2 (e.g. Antifreeze) 5.1 - 20.0> 1.2 (e.g. Methylene Chloride) > 200 (>93) Actual D. COMPOSITION (List the complete composition of the waste, include any inert components and/or debris. Ranges for individual components are acceptable. If a trade name is used, please supply an MSDS. Please do not use abbreviations.) MIN MAX UOM CHEMICAL 0.0000000 15.0000000 **ACETONE** ALPHA-METHYL STYRENE 0.0000000 15.0000000 0.0000000 15.0000000 CUMENE **GLASS VIALS** 50.0000000 75.0000000 10.0000000 0.0000000 METAL CAPS 5.0000000 0.0000000 % PLASTIC DOES THIS WASTE CONTAIN ANY HEAVY GAUGE METAL DEBRIS OR OTHER LARGE OBJECTS (EX., METAL PLATE OR PIPING >1/4" THICK OR >12' LONG, METAL REINFORCED HOSE >12" LONG, METAL WIRE >12" LONG, METAL VALVES, PIPE FITTINGS, CONCRETE REINFORCING BAR OR ✓ NO YES PIECES OF CONCRETE >3")? If yes, describe, including dimensions: DOES THIS WASTE CONTAIN ANY METALS IN POWDERED OR OTHER FINELY DIVIDED FORM? YES ' NO DOES THIS WASTE CONTAIN OR HAS IT CONTACTED ANY OF THE FOLLOWING; ANIMAL WASTES, HUMAN BLOOD, BLOOD PRODUCTS, BODY ✓ NO YES FLUIDS, MICROBIOLOGICAL WASTE, PATHOLOGICAL WASTE, HUMAN OR ANIMAL DERIVED SERUMS OR PROTEINS OR ANY OTHER POTENTIALLY INFECTIOUS MATERIAL? I acknowledge that this waste material is neither infectious nor does it contain any organism known to be a threat to human health. This certification is based on my knowledge of the material. Select the answer below that applies: The waste was never exposed to potentially infectious material YES NO YES NO Chemical disinfection or some other form of sterilization has been applied to the waste.

I ACKNOWLEDGE THAT THIS PROFILE MEETS THE CLEAN HARBORS BATTERY PACKAGING REQUIREMENTS.

G22

I ACKNOWLEDGE THAT MY FRIABLE ASBESTOS WASTE IS DOUBLE BAGGED AND WETTED

SPECIFY THE SOURCE CODE ASSOCIATED WITH THE WASTE.

NO

NO

YES

YES

SPECIFY THE FORM CODE ASSOCIATED WITH THE WASTE.



Clean Harbors Profile No. L339743

E. CONSTITUENTS

Are these values based on testing or knowledge?

✓ ! Knowledge

Testin

If based on knowledge, please describe in detail, the rationale applied to identify and characterize the waste material. Please include reference to Material Safety Data Sheets (MSDS) when applicable. Include the chemical or trade-name represented by the MSDS, and or detailed process or operating procedures which generate the waste.

Lab analysis

Please indicate which constituents below apply. Concentrations must be entered when applicable to assist in accurate review and expedited approval of your waste profile. Please note that the total regulated metals and other constituents sections require answers.

RCRA	REGULATED METALS	REGULATORY LEVEL (mg/l)	TCLP mg/l	TOTAL UC	MC MC	NOT APPLIC	CABLE	
D004	ARSENIC	5.0	•					
D005	BARIUM	100.0				122		
D006	CADMIUM	1.0						
D007	CHROMIUM	5.0				····›		
D008	LEAD	5.0	· • • • • • • • • • • • • • • • • •					
D009	MERCURY	0.2				7		
D010	SELENIUM	1.0				-		
D010	SILVER	5.0						
	. .	3.0						
5040	VOLATILE COMPOUNDS	0.5		OTHER CONSTITUENTS		MAX	UOM	NOT
D018	BENZENE	0.5		•				APPLICABLE
D019	CARBON TETRACHLORIDE	0.5		BROMINE	 .			-
D021	CHLOROBENZENE	100.0		CHLORINE	 .			
D022	CHLOROFORM	6.0		FLUORINE			-	<u>v'</u>
D028	1,2-DICHLOROETHANE	0.5		IODINE	. 		- 	
D029	1,1-DICHLOROETHYLENE	0.7		SULFUR				(Z
D035	METHYL ETHYL KETONE	200.0	•••••	POTASSIUM				₹.
D039	TETRACHLOROETHYLENE	0.7		SODIUM				<u>'</u>
D040	TRICHLOROETHYLENE	0.5		AMMONIA				
D043	VINYL CHLORIDE	0.2		CYANIDE AMENABLE				/
	SEMI-VOLATILE COMPOUND			CYANIDE REACTIVE			• • • • • • • • • • • • • • • • • • •	2
D023	o-CRESOL	200.0		CYANIDE TOTAL				- se
D024	m-CRESOL	200.0		SULFIDE REACTIVE				7
D025	p-CRESOL	200.0		uoca		DCD-		
D026	CRESOL (TOTAL)	200.0		. HOCs		PCBs		
D027	1,4-DICHLOROBENZENE	7.5		NONE		NONE		
D030	2,4-DINITROTOLUENE	0.13		< 1000 PPM		< 50 F	PPM	
D032	HEXACHLOROBENZENE	0.13		>= 1000 PPM		>=501	PPM	
D033	HEXACHLOROBUTADIENE	0.5		-		IF PCBS AF		
D033	. 	3.0		·		WASTE RE	GULATED	BY TSCA 40
· 	HEXACHLOROETHANE			.			p	7.78% \
D036	NITROBENZENE	2.0		. '		I YES	5 i _{ji}	NO
D037	PENTACHLOROPHENOL	100.0						
D038	PYRIDINE	5.0						
D041	2,4,5-TRICHLOROPHENOL	400.0						
D042	2,4,6-TRICHLOROPHENOL	2.0						
	PESTICIDES AND HERBICIDE	S						
D012	ENDRIN	0.02						
D013	LINDANE	0.4						
D014	METHOXYCHLOR	10.0						
D015	TOXAPHENE	0.5						
D016	2,4-D	10.0						
D017	2,4,5-TP (SILVEX)	1.0						
D020	CHLORDANE	0.03		•				
D031	HEPTACHLOR (AND ITS EPOXIDE	<i></i>	• • • • • • • •					
	The state of the s							

DOES THIS WASTE HAVE ANY UNDISCLOSED HAZARDS OR PRIOR INCIDENTS ASSOCIATED WITH IT, WHICH COULD AFFECT THE WAY IT SHOULD BE HANDLED?

YES NO (If yes, explain)

CHOOSE ALL THAT APPLY

DEA REGULATED SUBSTANCE POLYMERIZABLE EXPLOSIVE RADIOACTIVE

FUMING

OSHA REGULATED CARCINOGENS

NONE OF THE ABOVE

REACTIVE MATERIAL V No



Clean Harbors Profile No. L339743

F. REGU	ATOR	Y STAT	us					
YES	6	NO	USEPA HAZARDOUS WA	ASTE?		ontwers consenses on a new Administration decoration consenses we		workers to remove contract of the contract of
			D001 U002 U055	MARKET THE PROJECT WAS CONTROL OF THE PROPERTY		Mileseccencenceccoccoccococcus vivosavia fallana		
YES	3	NO	DO ANY STATE WASTE	CODES A	PPLY?			accessoration and the state of
			Texas Waste Code O	UTS409F	CONTRACTOR	TANTON BETTTERSTER OF THE THE SECRETARY	entitiet om der version in som om behande de d	
YES	3	NO	DO ANY CANADIAN PRO	OVINCIAL	WASTE CODES APPLY?			**************************************
				************************		********************************		
YES	3	NO	IS THIS WASTE PROHIB	ITED FRO	M LAND DISPOSAL WITHOUT FURTHER T	REATMENT PE	ER 40 CFR PART 268?	
			LDR CATEGORY: VARIANCE INFO:	This is s	ubject to LDR.			THE RESIDENCE OF CONTRACT OF THE STATE OF TH
YES		NO	IS THIS A UNIVERSAL W	VASTE?				and the second s
YES	;	NO	IS THE GENERATOR OF	THE WAS	TE CLASSIFIED AS CONDITIONALLY EXE	MPT SMALL Q	UANTITY GENERATOR (CESQG)?	
YES	;	NO	IS THIS MATERIAL GOIN	NG TO BE	MANAGED AS A RCRA EXEMPT COMMERC	CIAL PRODUC	T, WHICH IS FUEL (40 CFR 261.2 (C)(2)(II)))?
YES		NO	DOES TREATMENT OF	THIS WAS	TE GENERATE A F006 OR F019 SLUDGE?			
YES		NO			T TO THE INORGANIC METAL BEARING W.	ASTE PROHIB	ITION FOUND AT 40 CFR 268.3(C)?	
YES		NO			C'S IN CONCENTRATIONS >=500 PPM?			
YES		NO			ATER THAN 20% OF ORGANIC CONSTITU	ENTS WITH A	VAPOR PRESSURE >= .3KPA (.044 PSIA)	?
YES					ORGANIC CONSTITUENT WHICH IN ITS PU		,	
YES		•				TET OTHER	on the ontraceount of the trace	<i>5.7.</i> (y.
		NO	IS THIS CERCLA REGUL	•	OF THE FOLLOWING NESHAP RULES?		•	
YES	' -	NO				ecuticals ared	uction (subpart GGG)	
	l.		-		,			
YES	L	NO			WASTE, DOES THIS WASTE STREAM CON			
	YE	S			ne from a facility with one of the SIC codes lise original source of the waste is from a chemic			
	YE	S			this waste stream a facility with Total Annual		•	, , , , , , , , , , , , , , , , , , , ,
	W	hat is the	e TAB quantity for your facil	lity?	Megagram/year (1 Mg	= 2,200 lbs)		
	Th	e basis	for this determination is: Kn	owledge o	the Waste Or Test Data		Knowledge Testing	
	De	escribe t	he knowledge :					***************************************
G. DOT/TI	G INF	ORMAT	ION					
DOT/TDG	PROP	ER SHIP	PPING NAME:					
UI	11993	WAST	E FLAMMABLE LIQUI	DS, N.O.	S., (ACETONE, PHENOL), 3, PG II, (GC	VIALS)		
			REQUIREMENTS FREQUENCY ONE TIME	IE WEEI	(LY MONTHLY - QUARTERLY YE	ARLY OTH	ER <u>Other</u>	
			NTAINERIZED		BULK LIQUID		BULK SOLID	
5-10			RS/SHIPMENT					VARR
STORAG	E CAP	ACITY:			GALLONS/SHIPMENT: 0 Min -0 Max	GAL.	SHIPMENT UOM: TON	YARD
CONTAIN			POY BALLET				TONS/YARDS/SHIPMENT: 0 Min - 0 M	Max
	TOTE 1	YARD E	OX PALLET DRUM					
	OTHER		i - /					
			DRUM SIZE: 55					
I. SPECIAI								
COMME	ITS OR	REQUES	TS:					
GENERATO	R'S CEF	TIFICAT	ION					
					ents is correct to the best of my knowledge. I also ce nerator grants Clean Harbors the authority to amend			
,	UTHO	RIZED	SIGNATURE	NΔN	ME (PRINT)	TITLE	DATE	
			nocoinc.com	(1/4)	·- v · · · · · · /	,,,,,,,		_
			en submitted using Clean Harbor	rs' electronic	signature system			
			red notice:	. S G.GOLIOIIIC				
	ed by Fe	deral Res	source Conservation and Recove		ations found in 40 CFR Part 264.12(b) and all equiva		ous waste regulations, notice is hereby provided the permits and the capacity to manage these wastes.	at all Clean

Report Printed On: Wednesday, June 08, 2011

Please note this profile must be submitted for re-evaluation if there has been a change in the waste generating process or when there have been changes in the chemical composition or physical characteristics of the material.



WASTE MATERIAL PROFILE SHEET

Clean Harbors Profile No. L339744

A. GENERAL INFORMATION Sunoco Inc GENERATOR NAME GENERATOR EPA ID #/REGISTRATION # PAD002312791 STATE/PROVINCE ZIP/POSTAL CODE GENERATOR CODE (Assigned by Clean Harbors) SU0285 Philadelphia 19137 ADDRESS Margaret and Bermuda Street PHONE: (215) 807-8442 CUSTOMER CODE (Assigned by Clean Harbors) SU0285 CUSTOMER NAME: Sunoco Inc STATE/PROVINCE ZIP/POSTAL CODE 19137 ADDRESS Margaret and Bermuda Street Philadelphia PA **B. WASTE DESCRIPTION** WASTE DESCRIPTION: Spent phenol GC vials PROCESS GENERATING WASTE: Lab analysis IS THIS WASTE CONTAINED IN SMALL PACKAGING CONTAINED WITHIN A LARGER SHIPPING CONTAINER ? No C. PHYSICAL PROPERTIES (at 25C or 77F) PHYSICAL STATE NUMBER OF PHASES/LAYERS VISCOSITY (If liquid present) COLOR SOLID WITHOUT FREE LIQUID 1 - 100 (e.g. Water) TOP 0.00 **POWDER Varies** MIDDLE 0.00 101 - 500 (e.g. Motor Oil) MONOLITHIC SOLID % BY VOLUME (Approx.) LIQUID WITH NO SOLIDS ROTTOM 0.00 501 - 10,000 (e.g. Molasses) LIQUID/SOLID MIXTURE > 10.000 % FREE LIQUID ODOR % SETTLED SOLID BOILING POINT °F (°C) MELTING POINT °F (°C) TOTAL ORGANIC NONE % TOTAL SUSPENDED SOLID CARBON <= 95 (<=35) MILD SLUDGE < 140 (<60) <= 1% 95 - 100 (35-38) STRONG GAS/AFROSOL 140-200 (60-93) 1-9% 101 - 129 (38-54) Describe: > 200 (>93) >= 10% >= 130 (>54) FLASH POINT °F (°C) SPECIFIC GRAVITY BTU/LB (MJ/kg) ASH pΗ < 73 (<23) < 0.8 (e.g. Gasoline) <= 2 < 2,000 (<4.6) < 0.1 > 20 73 - 100 (23-38) 0.8-1.0 (e.g. Ethanol) 2,000-5,000 (4.6-11.6) 2.1 - 6.9 0.1 - 1.0Unknown 101 -140 (38-60) 1.0 (e.g. Water) 5,000-10,000 (11.6-23.2) 7 (Neutral) 1.1 - 5.0141 -200 (60-93) 7.1 - 12.4 > 10.000 (>23.2) 1.0-1.2 (e.g. Antifreeze) 5.1 - 20.0 > 200 (>93) >= 12.5 > 1.2 (e.g. Methylene Chloride) Actual D. COMPOSITION (List the complete composition of the waste, include any inert components and/or debris. Ranges for individual components are acceptable. If a trade name is used, please supply an MSDS. Please do not use abbreviations.) MAX LIOM CHEMICAL MIN 80.0000000 70.0000000 **GLASS VIALS** 0.0000000 10.0000000 **METAL CAPS PHENOL** 1.0000000 10.0000000 **PLASTIC** 0.0000000 5.0000000 30.0000000 WATER DOES THIS WASTE CONTAIN ANY HEAVY GAUGE METAL DEBRIS OR OTHER LARGE OBJECTS (EX., METAL PLATE OR PIPING >1/4" THICK OR >12" IN NO YES LONG, METAL REINFORCED HOSE >12" LONG, METAL WIRE >12" LONG, METAL VALVES, PIPE FITTINGS, CONCRETE REINFORCING BAR OR PIECES OF CONCRETE >3")? If yes, describe, including dimensions: DOES THIS WASTE CONTAIN ANY METALS IN POWDERED OR OTHER FINELY DIVIDED FORM? NO. YES DOES THIS WASTE CONTAIN OR HAS IT CONTACTED ANY OF THE FOLLOWING: ANIMAL WASTES, HUMAN BLOOD, BLOOD PRODUCTS, BODY YES NO. FLUIDS, MICROBIOLOGICAL WASTE, PATHOLOGICAL WASTE, HUMAN OR ANIMAL DERIVED SERUMS OR PROTEINS OR ANY OTHER POTENTIALLY INFECTIOUS MATERIAL? I acknowledge that this waste material is neither infectious nor does it contain any organism known to be a threat to human health. This certification is based on my knowledge of the material. Select the answer below that applies: The waste was never exposed to potentially infectious material YES NO Chemical disinfection or some other form of sterilization has been applied to the waste. YES NO I ACKNOWLEDGE THAT THIS PROFILE MEETS THE CLEAN HARBORS BATTERY PACKAGING REQUIREMENTS. YES NO I ACKNOWLEDGE THAT MY FRIABLE ASBESTOS WASTE IS DOUBLE BAGGED AND WETTED. YES NO

SPECIFY THE SOURCE CODE ASSOCIATED WITH THE WASTE.

SPECIFY THE FORM CODE ASSOCIATED WITH THE WASTE.



Clean Harbors Profile No. L339744

E. CONSTITUENTS

Are these values based on testing or knowledge?

✓ Knowledge

If based on knowledge, please describe in detail, the rationale applied to identify and characterize the waste material. Please include reference to Material Safety Data Sheets (MSDS) when applicable. Include the chemical or trade-name represented by the MSDS, and or detailed process or operating procedures which generate the waste.

Please indicate which constituents below apply. Concentrations must be entered when applicable to assist in accurate review and expedited approval of your waste profile. Please note that the total regulated metals and other constituents sections require answers.

RCRA	REGULATED METALS	REGULATORY LEVEL (mg/l)	TCLP mg/l	TOTAL	UOM	NOT APPLICABLE	
D004	ARSENIC	5.0				No.	
D005	BARIUM	100.0	•••••		• • • • • • • • • • • • • • • • • • • •	I to the second	
D006	CADMIUM	1.0			·	15,	
D007	CHROMIUM	5.0		•••••••••••	• • • • • • • • • • • • • • • • • • • •	Z-1	
D008	LEAD	5.0		•••••		180	
D009	MERCURY	0.2				· ·	
D010	SELENIUM	1.0				V	
D011	SILVER	5.0					
• • • • • • • • • • • • • • • • • • • •	VOLATILE COMPOUNDS			OTHER CONSTITUENTS		MAY IIOM	NOT
D018	BENZENE	0.5		OTHER CONSTITUENTS	•	MAX UOM	APPLICABLE
D019	CARBON TETRACHLORIDE	0.5	• • • • • • • • • • • • • • • • • • • •	BROMINE			!
D021	CHLOROBENZENE	100.0		CHLORINE			
D022	CHLOROFORM	6.0	• • • • • • • • • • • • • • • • • • • •	FLUORINE			v .
D028	1,2-DICHLOROETHANE	0.5	• • • • • • • •	IODINE			
D028	1,1-DICHLOROETHYLENE	0.7		SULFUR			
				POTASSIUM		• • • • • • • • • • • • • • • • • • • •	~
D035	METHYL ETHYL KETONE	200.0		SODIUM			
D039	TETRACHLOROETHYLENE	0.7		AMMONIA		• • • • • • • • • • • • • • • • • • • •	
D040	TRICHLOROETHYLENE	0.5	• • • • • • • • • • • • • • • • • • •	CYANIDE AMENABLE			
D043	VINYL CHLORIDE	0.2				• • • • • • • • • • • • • • • • • • • •	<u>5</u>
	SEMI-VOLATILE COMPOUNDS			CYANIDE REACTIVE		• • • • • • • • • • • • • • • • • • • •	December 1
D023	o-CRESOL	200.0		CYANIDE TOTAL		• • • • • • • • • • • • • • • • • • • •	
D024	m-CRESOL	200.0		SULFIDE REACTIVE			<u> </u>
D025	p-CRESOL	200.0		HOCs		PCBs	
D026	CRESOL (TOTAL)	200.0		NONE		NONE	
D027	1,4-DICHLOROBENZENE	7.5		< 1000 PPM		< 50 PPM	
D030	2,4-DINITROTOLUENE	0.13		>= 1000 PPM		>=50 PPM	
D032	HEXACHLOROBENZENE	0.13				IF PCBS ARE PRESEN	T IS THE
D033	HEXACHLOROBUTADIENE	0.5				WASTE REGULATED B	
D034	HEXACHLOROETHANE	3.0	- <i></i>			CFR 761?	
D036	NITROBENZENE	2.0		l		YES 1917	NO
D037	PENTACHLOROPHENOL	100.0					
D038	PYRIDINE	5.0					
D041	2,4,5-TRICHLOROPHENOL	400.0					
D042	2,4,6-TRICHLOROPHENOL	2.0					
,	PESTICIDES AND HERBICIDE	S					
D012	ENDRIN	0.02					
D013	LINDANE	0.4					
D014	METHOXYCHLOR	10.0					
D015	TOXAPHENE	0.5					
D016	2,4-D	10.0					
D017	2,4,5-TP (SILVEX)	1.0					
D020	CHLORDANE	0.03					
D031	HEPTACHLOR (AND ITS EPOXIDE)	0.008					
ADDITIONAL	HAZARDS						

DOES THIS WASTE HAVE ANY UNDISCLOSED HAZARDS OR PRIOR INCIDENTS ASSOCIATED WITH IT, WHICH COULD AFFECT THE WAY IT SHOULD BE HANDLED?

NO (If yes, explain)

CHOOSE ALL THAT APPLY

DEA REGULATED SUBSTANCE POLYMERIZABLE

EXPLOSIVE RADIOACTIVE **FUMING** REACTIVE MATERIAL

OSHA REGULATED CARCINOGENS ✓ NONE OF THE ABOVE

Report Printed On: Wednesday, June 08, 2011



Clean Harbors Profile No. L339744

F. REGU	LATO	RYS	TAT	us						
YE	S		NO	USEPA HAZARDOUS	WASTE?		nana-k-colepiosooooooooooooooooooooooooooooooooooo		erres non-dissibility (security library such a security (security security security security security security	processor (1980)
•				U188						MODEOCON Reconstruction of the State of the
YE	S	Ţ.	NO	DO ANY STATE WAS	E CODES	APPLY?			······································	***************************************
				Texas Waste Code	outs219h		COLONIA DE CONTRACTOR E EN CONTRACTOR DE CONTRACTOR DE CONTRACTOR DE CONTRACTOR DE CONTRACTOR DE CONTRACTOR DE	20000000000000000000000000000000000000		MARCON CONTRACTOR OF THE STATE
YE	S	5.41	NO	DO ANY CANADIAN P	ROVINCIAL	WASTE CODES APPLY?	**************************************			***************************************
→ YE			NO	IC THE WASTE DOOL	URITED ED	OM LAND DISPOSAL WITHOUT FURT	LED TREATMENT DE	ED 40 CED DART 2682		
17.J IE	3		NO	LDR CATEGORY:	f	subject to LDR.		LICAO CITATANI 200:		***************************************
				VARIANCE INFO:						
YE	S	-0.0	NO	IS THIS A UNIVERSAL	. WASTE?					
YE	S		NO			STE CLASSIFIED AS CONDITIONALL				
YE	S		NO	IS THIS MATERIAL GO	ING TO BE	MANAGED AS A RCRA EXEMPT CO	MMERCIAL PRODUC	T, WHICH IS FUEL (40 CF	R 261.2 (C)(2)(II))?	
YE	S	~	NO	DOES TREATMENT C	F THIS WAS	STE GENERATE A F006 OR F019 SLU	JDGE?			
YE	S		NO			CT TO THE INORGANIC METAL BEAF		SITION FOUND AT 40 CFR	R 268.3(C)?	
YE			NO			C'S IN CONCENTRATIONS >=500 PP			NADA 1 0 1 1 DOI 1 10	
YE	S		NO			EATER THAN 20% OF ORGANIC COM				
YE	S	~	NO	DOES THIS WASTE C	ONTAIN AN	ORGANIC CONSTITUENT WHICH IN	ITS PURE FORM HA	S A VAPOR PRESSURE >	> 77 KPA (11.2 PSIA)?	
YE		Y	NO		•	UPERFUND) WASTE ?				
YE	S		NO			OF THE FOLLOWING NESHAP RUL				
		1 41		•		(1.0.1)	Pharmaceuticals produ	, , ,		
YE		~	NO			S WASTE, DOES THIS WASTE STRE				
	`	YES				me from a facility with one of the SIC c ne original source of the waste is from a				
	,	YES		NO Is the genera	ing source o	f this waste stream a facility with Total	Annual Benzene (TAB)) >10 Mg/year?		
				e TAB quantity for your fa	•		ar (1 Mg = 2,200 lbs)			
				g ^{ar}	Knowledge	of the Waste Or Test Data		Knowledge	Testing	
		Desc	ribe tl	he knowledge :	*****************************	00000000000000000000000000000000000000	***************************************			
G. DOT/I	DG IN	IFOF	RMAT	ION						
				PPING NAME: "E PHENOL SOLUTION	ONS 61 F	e II				
				REQUIREMENTS	3110, 0.1, 1	011				
				FREQUENCY ONE	IME WEE	KLY MONTHLY [QUARTERL)	Y YEARLY OTH	ER <u>Other</u>		
		all.	co	NTAINERIZED		BULK LIQUI	D	BULK SC	DLID	
				RS/SHIPMENT		GALLONS/SHIPMENT: 0 Min -0 I	Max GAL.	SHIPMENT UOM:	TON	YARD
STORAC								TONS/YARDS/SHIPME	NT: 0 Min - 0 Max	
	CUBI	C YA	RD B	OX PALLET						
	TOTE		٧K	DRUM						
	OTHE	EK:		DRUM SIZE: 55		l		I		
. SPECIA	L REC	QUE	ST							
COMME	NTS O	R RE	QUES	TS:						
				_						
SENERATO	R'S C	FRTI	FICATI	ION						
I hereby	certify	that a	ll infor	mation submitted in this and		nents is correct to the best of my knowledge. enerator grants Clean Harbors the authority to				
	AUTH	IORI:	ZED S	SIGNATURE	NΔ	ME (PRINT)	TITLE		DATE	
				nocoinc.com	. •					
			_	en submitted using Clean Ha	bors' electroni	c signature system.				
*40 CFR	Sec. 2	64.12	requir	red notice:						
						lations found in 40 CFR Part 264.12(b) and a e hazardous waste described on this waste p				lean
Please the ma		nis pro	ofile mu	ust be submitted for re-evalua	ation if there ha	as been a change in the waste generating pro-	cess or when there have b	een changes in the chemical co	omposition or physical chara	acteristics of

Attachment 3D Three Years of Manifests Showing Disposal of "Spent GC Vials" and "Spent Phenol GC Vials"

Form Approved. OMB No. 2050-0039 Please print or type. (Form designed for use on elite (12-pitch) typewriter.) UNIFORM HAZARDOUS 1. Generator ID Number 3. Emergency Response Phone 4. Manifest Tracking Number WASTE MANIFEST Generator's Site Address (if different than mailing address) 5. Generator's Name and Mailing Address U.S. EPA ID Number 6. Transporter 1 Company Name 4 4 7 9 6 and a referred finite arms, at the first one U.S. EPA ID Number 7. Transporter 2 Company Name 55 11.00 3 / 3/3 7// 8. Designated Facility Name and Site Address U.S. EPA ID Number and the transfer of the I to all the sets of the ationamin in the tights 10. Containers 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 11. Total 12. Unit 9a. 13. Waste Codes Quantity Туре НМ 12、2.55 (2、4)和 COLOR (2) 特别特别的 (3) 2.55 (3) (3) UKSY 11.02 10.763 GENERATOR · 医二甲基环糖的 (17) 1981 · 5 · 83 (1 , 1. SJ (0.44 ¥ "4 (SPENT PHENOL GC VIALS) FR4 153 3. NACES THE WEST INTERPREDICTIONS OF ACCUSE 司马马克尔摩尔伊克尔马州约43.25。f. 3 EX 151 MASSE 2性的SCUME gabes 10700 (pxxib) E 3 (1) 3 5 周围的联制设计 医隐检验检查 0 1 3 ERG 151 14. Special Handling Instructions and Additional Information SOLVENT VIALE VT263 Resim 1 674 Phonol water tack slipe .. PHENOL VIALS 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. Loertify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. Month Year Generator's/Offeror's Printed/Typed Name For 1 Page 16. International Shipments Import to U.S. Export from U.S. Port of entry/exit: Transporter signature (for exports only): Date leaving U.S.: ANSPORTER 17. Transporter Acknowledgment of Receipt of Materials Signature Day Year Transporter 1 Printed/Typed Name Year Transporter 2 Printed/Typed Name Signature 2 18. Discrepancy 18a. Discrepancy Indication Space Туре __ Residue __ Quantity Partial Rejection Full Rejection Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number FACILITY Facility's Phone: DESIGNATED 18c. Signature of Alternate Facility (or Generator) Month Day Year 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 20. Designated Faculity Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Signature Printed/Typed Name Month Day Year

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		Oleani	larbors Environmental S	ervices			II S EPAID	Number	9322250
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	24. G	senerator's Name			- 				
	25. 1	Fransporter Company Name CleanHarbors Er				S. PAO 1	M 30	93222	50
	$\overline{}$	ransporter Company Name			U	.S. EPA ID Nun	nber	J C Lu fina fina	<u> </u>
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_	35. Di	screpancy							
DESIGNATED FACILITY									
GNATE	36. Ha	azardous Waste Report Management Method Codes (i.e., codes for haz	zardous waste treatment, disposal, and r	ecycling systems)			1		
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Month

Day

Signature

Printed/Typed Name

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

lea		nt or type. (Form designed for use on elite (12-pitch) typewriter.) CORM HAZARDOUS WASTE MANIFEST 21. Generator ID Number		22. Page	23 Manif	est Tracking Nu	Form	Approved. OMB No. 2050-0039
\uparrow	UNII	CORM HAZARDOUS WASTE MANIFEST (Continuation Sheet) 21. Generator ID Number						
	24. 0	enerator's Name				81,31,77		
	25.	ransporter Company Name				U.S. EPA ID	Number	
	26. 1	ransporter Company Name				U.S. EPA ID	Number	
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GENERATOR .								
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TRANSPORTER	34. T	ansporter Acknowledgment of Receipt of Materials d/Typed Name	Signature					Month Day Year
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DESIGNATED FACILITY	35. D	screpancy						
ATEL	36. H	azardous Waste Report Management Method Codes (i.e., codes for hazardous waste t	treatment, disposal, and re	cycling systems)				
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Page: 1 of 2

Printed Date :Jan 28, 2009

MANIFEST INF	ORMATION					
Generato	r: Sunoco Chen	nicals			Manifest Tracking Info.	
Addres	Margaret and Philadelphia,	Bermuda Street PA 19137			002581251FLE	
EPA ID	#: PAD0023	12791		Sale	s Order No: 732210943	
LINE ITEM INF	ORMATION					
Line Item:	Page No:	Profile No:	Treatability Group	:	LDR Disposal Category	
1.	1	L37556A	NON-WASTEWA	TER	2 (This is subject to LDR.)	
EPA Waste Co	de			EPA Wa	ste SubCategory	
D001				High TOC	Ignitable Liquids	
K022				NONE		
LINE ITEM INF	ORMATION					
Line Item:	Page No:	Profile No:	Treatability Group	:	LDR Disposal Category	
2.	1	L339743	NON-WASTEWA	TER	2 (This is subject to LDR.)	
EPA Waste Co	de	k	L	EPA Wa	ste SubCategory	
D001				High TOC	Ignitable Liquids	
U002 U055				NONE		
LINE ITEM INF	ORMATION					
Line Item:	Page No:	Profile No:	Treatability Group	:	LDR Disposal Category	
3.	1	38669	NON-WASTEWA	TER	2 (This is subject to LDR.)	
EPA Waste Co	de			EPA Wa	ste SubCategory	
U188				NONE		
LINE ITEM INF						
Line Item:	Page No:	Profile No:	Treatability Group	:	LDR Disposal Category	
4.	1	L339744	NON-WASTEWA	TER	2 (This is subject to LDR.)	
EPA Waste Co	de				ste SubCategory	
U188				NONE		

CleanH	larbors
EMVIRONMENTA	L SENVICES, INC.

Page: 2 of 2

CleanHarbors EMVIRONMENTAL SERVICES, INC.	tification Form	Printed Da	te :Jan 28, 2009
Certification	<u>n</u>		Applies to Manifest Line Items
Pursuant to 40 CFR 268.7(a), I hereby notify that this shipr Part 268.	ment contains was	ste restricted under 40 CFR	1. 2. 3. 4.
Waste analysis data where available, is attached. Signature: Title: Environmental Engineer.	Print Name Date :	Adrienm DeFelic	<u> </u>

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Plea	ase print or type. (Form designed for use on elite	e (12-pitch) typewriter.)							n Approved.	OMB No.	2050-0039
1:	UNIFORM HAZARDOUS 1, Generator ID Num WASTE MANIFEST	nber 3 ° € . 2 / → E.	2. Page 1 of	3. Emerg	ency Response	Phone 1 St	4. Manifest 1		umber 200	OF	LE
$\ $	5. Generator's Name and Mailing Address			Generator	's Site Address (if different that	an mailing addres	s)			
Ш	Amigaret and Parmuda Street			400	Ę						
П	Paladeinnia PA 19137			, , .							
Ш	Generator's Phone: 215) 307 3542										
Ш	6. Transporter 1 Company Name	Village decision (1999)		•			U.S. EPA ID N		3227	SA	
Ш	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Sales Automatic services							3 % 5 4	6 13 13	
Ш	7. Transporter 2 Company Name						U.S. EPA ID N	lumber			
П											
П	8. Designated Facility Name and Site Address						U.S. EPA ID N				
П	109 American Circle						AHD	003	7431	. 3 ?	
П	31 Dorado, AR 71730						1				
П	Facility's Phone: 376,383.7				40.01-1-		<u> </u>		Γ		
	9a. 9b. U.S. DOT Description (including Proper S and Packing Group (if any))	Shipping Name, Hazard Class, ID Number,			10. Contain No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13.	Waste Code	s
æ	¹ HQ, UN1993, WASTE I'UA	. E.O.K., EOKIOH 3JOAMM	ACETON	Æ.	106	D #4	00100	j.	0001	⊍002	U055
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뽒	2. 905 (MART 7% WASTE 50)	IDS CONTAINING FLASHMA	ARIF						1001	1002	
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$\ \cdot \ $		86#151									
П	15. GENERATOR'S/OFFEROR'S CERTIFICATION										
П	marked and labeled/placarded, and are in all res Exporter, I certify that the contents of this consig	nment conform to the terms of the attached	d EPA Acknowle	edgment o	of Consent.	•	-	ii export si	iipineiit ailu i	am ure min	aly
Ш	I certify that the waste minimization statement in	dentified in 40 CFR 262.27(a) (if I am a larg			b) (if I am a sma	Il quantity ger	nerator) is true.			-th- Davi	Van
П	Generator's/Offeror's Printed/Typed Name	•	Sign I	nature	j j	1			Mor	nth Day	Year
 *	16. International Shipments	'.i',		1/2	not of	the	A. sac Assault	****		$2 \mid j$	100
F.	import to	U.S. 🎺	Export from U	J.S.	Port of ent	,					
	Transporter signature (for exports only): 17. Transporter Acknowledgment of Receipt of Materia	als			Date leaving	ng U.S.:		,			
R	Towns of Danks (March March Name)		Sign	nature	111	7	1 1	×	Mor	nth Day	Year
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¥	Transporter 2 Printed/Typed Name		Sigr	nature		,	11		Moi	nth Day	Year
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1	18. Discrepancy										
	18a. Discrepancy Indication Space Quantit	ty Type		L	Residue		Partial Reje	ection	l	Full Reje	ection
≥	18b. Alternate Facility (or Generator)	10.000.000		Mai	nifest Reference	Number:	U.S. EPA ID N	lumber			
Ħ	7										
ξ	Facility's Phone:										
區	18c. Signature of Alternate Facility (or Generator)								Mo	nth Day	Year
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DESIGNATED FACILITY	19. Hazardous Waste Report Management Method C	codes (i.e., codes for hazardous waste treat	ment, disposal,	, and recyc	cling systems)						
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Ш	 Designated Facility Owner or Operator: Certification Printed/Typed Name 	on or receipt of hazardous materials covere		est except nature	as noted in Item	18a			Ma	nth Dev	Voor
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	print or type. (Form designed for use on elite	12-pitch) typewriter.)	22. Page		fest Tracking Nur		n Approved	I. OMB No.	2050-003
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24	4. Generator's Name	surroals							
2	5. Transporter Company Name				U.S. EPA ID I	Number			
╟	6. Transporter Company Name				U.S. EPA ID I	Number			
27		inging Name, Hazard Class ID Number	28. Con	tainare	29. Total	30. Unit	1		
H	and Packing Group (if any))	NOW YORK TOOKS TOOMS. NO 3 , 474	No.	Туре	Quantity	Wt./Vol.	31.	Waste Codes	s 1
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	inted/Typed Name		Signature				I	lonth Day	Year
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Clean Harbors Manifest Addendum

Page:1 of 1

Ger	erator ID Number:		Sales Order Number:
PA	0002312791	002995090FLE	732424928
1	Sunoco Chemicals Margaret and Bermud Philadelphia, PA1913	la Street	
Line	Profile No.	Profile Description:	Physical State Hazard Code Waste Codes
1.	L339743	SPENT GC VIALS	
		CH Container #	Customer Container #
2.	L38659	ACETONE FILTERS	
		CH Container #	Customer Container #
3.	L3755 6	PHENOL RESIDUE	
		SLUDGE	A
		CH Container #	Customer Container #
4.	3 8669	VT263 ION EXCHANGE RESIN	
		CH Container #	Customer Container #
5.	L38660	PHENOL FILTER	Control Containor #
٠.	200000	CH Container #	Customer Container #
6.	L38661	CAUSTIC SOLIDS	- Condition Contained in
		CH Container #	Customer Container #
7 .	L39785	SULFURIC ACID	
•		DEBRIS	
		CH Container #	Customer Container #
8.	6LID-002	SANDBLASTING	
		SOLIDS	0
		CH Container #	Customer Container #

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1	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number.	2. Page 1 of 3. E	mergency Respons	e Phone	4. Manifest 1		umber	.2 F	LE
П	5. Generator's Name and Mailir	ng Address	Gen	erator's Site Address	s (if different t	han mailing addres	s)			
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Н	Talacidadila 14		:							
Ш		207 2443								
Н	Generator's Phone:	544 \$. 1. com 2								
П	6. Transporter 1 Company Nam	ne				U.S. EPĄ ID N	lumber 🚕	19 79 13 1	7 22 3	
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П	7. Transporter 2 Company Nam	ne				U.S. EPA ID N	umber			
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Н	8. Designated Facility Name an	ad Site Address				U.S. EPA ID N	umbor			
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Н	Facility's Phone:	19 10 10 21 (12								
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П	HM and Packing Group (if	any))		No.	Type	Quantity	Wt./Vol.	13.	Waste Code	85
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Н	L. D. Miller	and the little	3							
П		OR'S CERTIFICATION: I hereby declare that the c		lly and accurately d	accepted above	o by the proper chi	nnina nama	and are ela	scified pack	agod
П		arded, and are in all respects in proper condition for								
Ш		contents of this consignment conform to the terms			dona govern	nontai regulations.	пехроптоп	pinontana	diritio i iiii	ury
Ш		nimization statement identified in 40 CFR 262.27(a)			all quantity ge	enerator) is true.				
П	Generator's/Offeror's Printed/Ty	yped Name	Signatur	9 /3	1			Moi	nth Day	Year
П	12		1	11 1	4/	,		1	ا	1
<u> </u>	1901	Brance		Marcel	Plan	port , the more way		د	7 14	113
NT'F	16. International Shipments	Import to U.S.	Export from U.S.	Port of a	ntry/exit:	,				
ΙZ	Transporter signature (for expo		Export from 0.5.		-					
				Dale leav	ving U.S.:					
迪	17. Transporter Acknowledgmer									
TR ANSPORTER	Transporter 1 Printed/Typed Na	ime	Signature	9				Mor	nth Day	Year
٦	ļ	THE Beadly		M	1				19 34	113
12	Transporter 2 Printed/Typed Na		Signature	9				Moi	nth Day	Year
Z	, , , , , , , , , , , , , , , , , , , ,		1					1	1	1
Ĕ										
A	18. Discrepancy									
П	18a. Discrepancy Indication Spa	200							\neg	
П	Toa. Discrepancy indication sp.	Quantity	Type	Residue		Partial Reje	ction	(Full Reje	ection
П										
11				Manifest Reference	e Number					
~	18b. Alternate Facility (or General	rator)				U.S. EPA ID N	umber			
15	l	,				5.5. El AID N				
ᄗ										
ıΣ	Facility's Phone:									
جرا	18c. Signature of Alternate Faci	ility (or Generator)						Mo	onth Day	Year
ᄩ	l January Contract of the Cont	, ,						1	Day	ı
2										
DESIGNATED FACILITY	19. Hazardous Waste Report M	lanagement Method Codes (i.e., codes for hazardo	us waste treatment, disposal, and	recycling systems)					-	
NZ.	1.	2.	13.	, , , , , , , , , , , , , , , , , , , ,		4.				
	1040	2 19040	110	ite		7 30	140			
1	* * * * * * * * * * * * * * * * * * * *									
	20. Designated Facility Owner of	or Operator: Certification of receipt of hazardous ma	aterials covered by the manifest ex	cept as, noted in Ite	m 18a					
	Printed/Typed Name		Signature					Мо	nth Day	Year
Ш			ı					1	ı	1
ı w										1

ease :	print or type. (Form designed for use on elite	(12-pitch) typewriter.) 332926779-94	ot a	Direction .	NA3010	Forr	n Approved	. OMB No. 2	2050-003
	REFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page		ifest Tracking Nur 331442FLE	nber			
24.	Generator's Name		· · · · ·						
25.	. Transporter Company Name				U.S. EPA ID N	lumber			
26.	Transporter Company Name	Man			U.S. EPA ID I	lumber			
27a HM	and Packing Group (if any))		28. Contai No.	ners Type	29. Total Quantity	30. Unit Wt./Vol.		Waste Codes	
X	1	NOL GC VIALS)	901	D 34	773 -44400 228	į,	0133		
×	3. UN2735, NASTE AMINES	LIQUID, CORROSIVE, N.O.S., YLENE DIAMINEX 3, PG I	991	0F	-60042-	p	KOOZ		
- X	7 ON1789, WASTE HYDROL	901	٥ř	130	Ça	13003			
×	3, UN3244, WASTE SOLIDS N.O.S., (SOCIUM HYDROXID	CONTAINING CORROSIVE LIQUES, B., PG II	1D, 90 t	O M	-00400 124	р	0.003		
X	J. NONE, SVASTE NON DOTT	REGULATED MATERIAL, N/A	008	0 #	-04.73	р			
-		7,500			1602				<u>.</u>
\vdash									
							7		
\vdash	,								
8	Special Handling Instructions and Additional Inform FROM REGIST 1.716 LCTPA ERGIST 1.710 LTS681 TROITS 1.755	ation, DOUTEN 3755							
	TransporterAcknowledgment of Receipt of nted/Typed Name	Materials	Signature				Мо	onth Day	Year
34.	TransporterAcknowledgment of Receipt of	Materials	· · · · · · · · · · · · · · · · · · ·				L		
Pri	nted/Typed Name	1	Signature				Мо 	nth Day	Year
35.	Discrepancy								
36.	Hazardous Waste Report Management Method Co	des (i.e., codes for hazardous waste treatment, disp	osal, and recycling systems)	3, 341,41	L	1	9.31040	,	
36.						<u> </u>			

ISPEM 3/4/2010



Page : 1 of 2

Printed Date :Jul 13, 2010

MANIFEST INF	ORMATION		=======================================						
Generato	r: Sunoco Inc				Manifest Tracking Info.				
Addres	Margaret and Philadelphia,	Bermuda Street PA 19137			002331442FLE				
EPA ID		12791	[Sale	es Order No: 632926779-001				
LINE ITEM INF		TD Ele Ne	TT		LDD Disposal Cotogoni				
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category				
1.	1	LCCRD	NON-WASTEWAT	ER	2 (This is subject to LDR.)				
EPA Waste Co	de			EPA Was	ste SubCategory				
D001				High TOC	Ignitable Liquids				
LINE ITEM INF	ORMATION								
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category				
2. 1 LCCRD NON-WASTEWATER 2 (This is subject to LDR.)									
EPA Waste Co	PA Waste Code EPA Waste SubCategory								
D001									
LINE ITEM INF	ORMATION			L					
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category				
3.	1	L339743	NON-WASTEWAT	ER	2 (This is subject to LDR.)				
EPA Waste Co	de	L	.L	EPA Was	ste SubCategory				
D001					Ignitable Liquids				
U002U055				NONE					
LINE ITEM INF	ORMATION			L					
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category				
4.	1	L38662	NON-WASTEWAT	ER	2 (This is subject to LDR.)				
EPA Waste Cod	de			EPA Was	ste SubCategory				
D001				Ignitables,	except High TOC Liquids				
D003				Other read	tives				
U096				NONE					
LINE ITEM INF	ORMATION			4					
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category				
5.	2	L339744	NON-WASTEWAT	ER	2 (This is subject to LDR.)				
EPA Waste Cod	 de	L	L	EPA Was	ste SubCategory				
U188									



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LDR Chemical Data									
Chemical			Ha	nderlying azardous nstituents	Constituents of Concern	Contaminants Subject to Treatment			
Phenol				Y	N	N			
LINE ITEM INF	ORMATION								
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category				
6.	2	LCCRB	NON-WASTEWAT	ĒR	2 (This is subject to LDR	.)			
EPA Waste Co	de			EPA Wa	ste SubCategory				
D002				Corrosive	Characteristic				
LINE ITEM INF	ORMATION								
Line Item: Page No: Profile No: Treatability Group: LDR Disposal Category									
7. 2 LCCRA NON-WASTEWATER 2 (This is subject to LI						.)			
EPA Waste Co	de	L		EPA Was	ste SubCategory				
D002				Corrosive	Characteristic				
LINE ITEM INF	ORMATION								
Line Item:	ne Item: Page No: Profile No: Treatability Group: LDR Disposal Categor								
8.	2	L38661	NON-WASTEWAT	ĒR	3 (Alternate Debris Stand	dard)			
EPA Waste Co	de	h		EPA Was	ste SubCategory				
D002				Corrosive	Characteristic				
		Certif	ication			Applies to Manifest Line Items			
Pursuant to 40 Part 268.	CFR 268.7(a), I he	reby notify that this	shipment contains	waste res	tricted under 40 CFR	1. 2. 3. 4. 5. 6. 7.			
This hazardous	debris is subject to	the Alternate Trea	atment Standards of	40 CFR 2	268.45.	8.			
This waste is not restricted as specified in 40 CFR 268 Subpart D.									
Waste analysis	Waste analysis data, where available, is attached.								
Signature :	- Kurl	Muni	Print Name		Kaul KAUG	inc			
Title :	Fuu	wo tony	Date:		7/14/10				

-1ea	ase prir	nt or type. (Form desig			ewriter.)	161516			7/14/	ggre:			. OMB No.	2000-0038			
1		ORM HAZARDOUS ASTE MANIFEST	1. Generator ID Nu	mber 23127	9 1	2. Page	(8)	rgency Respons	371E		3	umber	7 F	ELE			
١		nerator's Name and Mailin	g Address		S: 10		Generat	or's Site Addres	s (if different th	an mailing addre	ss)						
	F	moco in- organel and ber hiladelphia, PA	19107	et			SA	語) 5 :									
	Gener	rator's Phone: (215)	807-8442														
١		nsporter 1 Company Nam		i Savious I	rei.					U.S. EPA ID Number MAD 039327250							
ĺ	7. Tran	nsporter 2 Company Nam	e					****		U.S. EPA ID Number							
ı	9 Das	signated Facility Name and	d Cito Address							U.S. EPA ID Number							
	30	ens Harbors El 99 American Ci Dorado: Aft 71	Dorado I.I.C rek: 736:							A FED	162						
ı	Facility	y's Phone:	(670)863-	71.72			-										
	9a. HM	9b. U.S. DOT Description and Packing Group (if a		Shipping Name, H	azard Class, ID Numb	oer,		10. Conta No.	iners Type	11. Total Quantity	12. Unit Wt./Vol.	13.	Waste Code	es			
۳ ا	1 1	1. UN1993, WA PHENOL), 3,			ids, No.5., (ACETON:						D003	U 002	U055			
GENERATOR	Ä	(SPENT GC VIALS) 2 UNL993, WASTE FLAMMABLE LIQUIDS, N.O.S., (CUMEN)							D.	135	100						
GENE		一 场待的 物质生物 医静态 拉									,	D001	U055				
Ĭ	Х	100 (1675, D)(6)), 3, FQ 1,					Õ	\hat{y}_{t}	640	P						
١	1 1	3. UN3110, WA (CUMENE HY)LID					ز	D 003	D003	U096			
l	X	(Sometice III	Dittoucii i i	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.a., r v t			,	ijγn	765	P						
	4. UN2821, WASTE PHENOL SOLUTION: 6.1, PG II											uiss					
	y	(SPE	NT PHI	ENOL G	C VIALS)		1	174	128	1,						
	1.	1.1330743 REGEARS IN STATE TO STATE THE PROPERTY OF THE PROPER															
	1 E	marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.															
	1	ator's/Offeror's Printed/Ty		t			Signature	100 31	1	rollari	me.	мо О	nth Day				
INT'L *	<u> </u>	ernational Shipments	Import			Export fr		Port of e		1 2 1 G. 1. C. 1. C.	C .s.,			1:-			
	-	porter signature (for expo	ts only):		1. Tr				ving U.S.:								
띪	1	ansporter Acknowledgmen		rials			Cianatura					Mo	oth Day	Year			
TR ANSPORTER	Transp	porter 1 Printed/Typed Nar	Treedle	J.∉.			Signature		· · ·			n	•				
RANS	Transp	porter 2 Printed/Typed Nar	ne				Signature	(marrier				Mo I	nth Day	Year			
<u>+</u>	18 Dis	screpancy					-										
I		Discrepancy Indication Spa	ce 🗆		Π-			7									
				tity store::: Black like	Ll Type • 1 €c er state ta the ted	exactic live	vices High	Residue	ni bis tabaisans	Partial Re	ection 1040		L] Full Rej	ection			
18b. Alternate Facility (or Generator) U.S. EPA									U.S. EPA ID I	Number							
ACIL										1							
Ë		Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Month Day Year															
DESIGNATED FACILITY		19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)															
Š	-	zardous Waste Report Ma	nagement Method	Codes (i.e., codes	for hazardous waste t	treatment, disp	osal, and rec	ycling systems)									
i I	1.			2.	\$ - m		3.	 		4.		<i>i</i>					
		signated Facility Owner o	r Operator: Certifica	ition of receipt of ha	zardous materials co	vered by the r		pt as noted in Ite	m 18a								
Printed/Typed Name Signature												Mo	onth Day	Year			

Ple	ase pr	nt or type. (Form designed for use o	n elite (12-pitch) typewriter.) 33	3107210	C	CPM:	7/14/2016	· Forn	n Approved	OMB No.	2050-0039	
<u>†</u>	UNII	ORM HAZARDOUS WASTE MANI	FEST	21. Generator ID Number		22. Page		ifest Tracking Nu	mber				
		(Continuation Sheet)		PAD00231;	7791	2 of 2	003	39741711					
	24. G	enerator's Name	Ser less										
	25. 1	ransporter Company Name						U.S. EPA ID	Number	_		****	
	26. T	ransporter Company Name						U.S. EPA ID	U.S. EPA ID Number				
	27a. HM	27b. U.S. DOT Description (including Pro and Packing Group (if any))	oper Ship	oping Name, Hazard Class, ID	Number,	28. Conta	iners Type	29. Total Quantity	30. Unit Wt./Vol.	31.1	Waste Codes	5	
	х	6 UNAP43, BOLIDE CO 6.1, PC II	MIAII	VING TOXIC LIQUID	NOS (PHENO		ĎСт		(***				
	×	E. UN3244, WASTE SON N.O.S., (SODIUM HYDRO	UDS (CONTAINING CORF	KOSIVE LIQUID				,f.s.	D002			
		AME I AND SAME A COMMENSAGE A SERVICE A SERVIC		e py war is were to		5	1)^1	1100	3				
	Х	7. RQ. NASO77, HAZAR G. PG III (DO18)	tDou	WASTE SOLID N	i.o.s., (Benzene)				ر,	D018			
							1.)/2	110	*				
GENERATOR													
GENE													
							<u>. </u>		 				
						1.							
1	5.0 6.1	pecial Handling Instructions and Additiona PR 594 98	il Informa	tion									
TER	33. Ti Printe	ansporter Acknowledgment of Rend/Typed Name	eceipt of N	Materials	Signatu	re	,			Мо	nth Day	Year	
SPOR				Matadala									
TRANSPORTER	Printe	ansporter Acknowledgment of Re d/Typed Name	ecerpt of N	Materials	Signatu	re			-	Mo	nth Day	Year	
_	35. D	screpancy	<u></u>			,		,				<u> </u>	
DESIGNATED FACILITY													
NATE	36. H	azardous Waste Report Management Met		·		recycling systems)			!				
DESIG	<u> </u>	NOA!	<u>(; K1</u>	A)	<u> </u>	<u> </u>			<u> </u>				



Page : 1 of 3

Printed Date: Sep 27, 2010

ENVIRONMENT		=======================================	=======================================	222222222E		=======================================		
MANIFEST INF								
Generato	or: Sunoco Inc				Manifest Tracking	Info.		
Addres	Margaret and Philadelphia,	Bermuda Street PA 19137			003397417FLE			
EPA ID	#: PAD0023	12791		Sal	es Order No: 7331072	10		
LINE ITEM INF								
Line Item:	Page No:	Profile No:	Treatability Group	•				
1.	[1	L339743	NON-WASTEWA	ΓER	2 (This is subject to LD	R.)		
EPA Waste Co	de	L		EPA Wa	ste SubCategory			
D001				High TOC	Ignitable Liquids			
U002U055				NONE				
LINE ITEM INF	ORMATION		**************************************					
Line Item:	Page No:	Profile No:	Treatability Group		LDR Disposal Categor			
2.	1	L37557	NON-WASTEWA	TER	2 (This is subject to LD	R.)		
EPA Waste Co	de	.L	·L	EPA Wa	ste SubCategory			
D001				High TOC	Ignitable Liquids ,			
U055				NONE				
LINE ITEM INF	ORMATION							
Line Item:	Page No:	Profile No:	Treatability Group		LDR Disposal Categor	y		
3.	1	L38662	NON-WASTEWA	TER	2 (This is subject to LD	R.)		
EPA Waste Co	de		.L	EPA Wa	ste SubCategory			
D001				Ignitables	, except High TOC Liquids			
D003				Other read	ctives			
U096				NONE				
LINE ITEM INF	ORMATION		***	-L				
Line Item:	Page No:	Profile No:	Treatability Group	:	LDR Disposal Categor	'		
4.	1	L339744	NON-WASTEWA	TER	2 (This is subject to LD	R.)		
EPA Waste Co	de	· L		EPA Wa	ste SubCategory			
U188				NONE				
			LDR Chemical Da	ata				
				Jnderlying	Constituents	Contaminants		
				Hazardous	of	Subject to		
Chemical			C	onstituents	Concern	Treatment		
Phenol				Υ	N	N		



Page : 2 of 3

Printed Date :Sep 27, 2010

	NFORMATION					
Line Item:	Page No:	Profile No:	Treatability Gr	oup:	LDR Disposal Catego	ory
6.	2	L38661	NON-WASTE	WATER	3 (Alternate Debris S	•
EPA Waste (Code			EPA Was	ste SubCategory	
D002				Corrosive	Characteristic	
LINE ITEM I	NFORMATION					
Line Item:	Page No:	Profile No:	Treatability Gr	oup:	LDR Disposal Catego	ory
7.	2	CH127448	NON-WASTE	WATER	2 (This is subject to L	.DR.)
EPA Waste (Code			EPA Was	nta SubCatagoni	
D018				NONE		
			LDR Chemica	l Data		
				Underlying	Constituents	Contaminants
				Hazardous	of	Subject to
Chemical				Constituents	Concern	Treatment
ANTHRACE	NE			Y	N	N
BENZ (A) AN	ITHRACENE			Υ	N	N
BENZO (A) P	YRENE			Υ	N	N
BENZO (B) F	LUORANTHENE			Υ	N	N
	LUORANTHENE			Y	N	N
CHRYSENE				Υ	N	N
FLUORENE				Υ	N	N
• •	,3-C,D) PYRENE			Υ	N	N
NAPHTHALE				Υ	N	N
PHENANTHE	RENE			Υ	N	N
TOLUENE				Υ	N	N
XYLENES (M	IIXED ISOMERS)			Υ	N	N



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<u>Certification</u>									
Pursuant to 40 CFR 268.7(a), I hereby notify that this shipment contains waste restricted under 40 CFR Part 268.									
This waste is not restricted as specified in 40 CFR 268 Subpart D.									
This hazardous d	ebris is subject to the Alternate Treatment	Standards of 40 C	FR 268.45.	6.					
Waste analysis de Signature : Title :	ata where available is attached. When Blanchard Environmental Engineer	Print Name Date :	Adrienne Blanchara 9/29/2010	<u>L</u>					

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039 UNIFORM HAZARDOUS 1. Generator ID Number 4. Manifest Tracking Number 2. Page 1 of 3. Emergency Response Phone 003917 经外数存储设备机过程等机 WASTE MANIFEST 3001 (83 57) (8 5. Generator's Name and Mailing Address Generator's Site Address (if different than mailing address) timeco inc Harguret and American Strawt ., 194E Philadelphia PA 19137 Generator's Phone: 215,807 4442 6. Transporter 1 Company Name U.S. EPA ID Number Clean Harbors Environcement depresent in **经产业的工作工作的工作工作** 7. Transporter 2 Company Name U.S. EPA ID Number 8. Designated Facility Name and Site Address U.S. EPA ID Number Mean Herhors El Correto LLD 1800031131232 1009 American Circle Cl Donado, AR 71,730 9701363-7173 Facility's Phone: 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 12. Unit 13. Waste Codes and Packing Group (if any)) HM Quantity Wt Mol No. Type ¹³ 例本分分生,所以3年代上上古城村市民民民主的外的8,对 (FS - 10年)的任务形。 1000 1,095 GENERATOR 993 OM 11) k i i i i) 多海洋电流 恐惧的。3. 四件件 Ä ²UN 1993, Waste Flammanle Lichtos, N.O.5. (acetome, 1000 STORES J. 735 091 0 4 00130 PHENOL), J. M. H. (RC MALS). X. (SPENT GC VIALS 3.4N3110, Waste Organic Peroxide Type 5, Socio, 0001 10003 110:38 (COMENE HYDROGEN PEROXIDE), 9-2, PG 9 3 13 3 13 65 计主转行证 3 "UN 28.10. VASTE TOXIC LIQUIDS, UNGANIC, N.O.S. IPHENOL. 4022 004 门桶 00490 ACETOPHENONE), a. L. INC (I ж 14. Special Handling Instructions and Additional Information 1.1.17115 33011 13 and ran 1.1.130743 无机维税 FOAT I'S 1.45,6, 1. 1. 171 14 **《新四篇集》** 3 1300 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if \(\) am a small quantity generator) is true. Generator's/Offeror's Printed/Typed Name Day Year Mar my ILL 16. International Shipments N Import to U.S. Export from U.S. Port of entry/exit: Transporter signature (for exports only): Date leaving U.S.: 17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Signature Month Day Year 11 Transporter 2 Printed/Typed Name Signature TRA Discrepancy 18a. Discrepancy Indication Space Type Full Rejection Quantity Residue Partial Rejection Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: DESIGNATED 18c. Signature of Alternate Facility (or Generator) Month Day Year 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 4. 1 1 3 44 3 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Signature Month Day Year

_		nt or type. (Form designed for use on elite (12-pitch) typewriter.) FORM HAZARDOUS WASTE MANIFEST (Continuation Sheet) 21. Generator ID Number (Continuation Sheet)	22. Page	23. Manife	est Tracking Nur	nber	1 Approved	. OIVIB NO. 2	050-00
2	4. G	enerator's Name	1						
2	5. 1	ransporter Company Name			U.S. EPA ID I	Number			
2	6. T	ransporter Company Name			U.S. EPA ID I	Number			
	7a. M	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Contain	ners Type	29. Total Quantity	30. Unit Wt./Vol.	31.	Waste Codes	
	¥	5. UN3243, WASTE SOLIDS CONTAINING TOXIC LIQUID, N.O.S., CUMENE, PHENOL), 3.1. PG II	992	i) M	90120	fa.	U188		
	X	9. UN3243, WASTE SOLIDS CONTAINING TOXIC LIQUID, N.O.S., ©UMYL PHENOL, PHENOL), 8.1, PG II	90 t	D M	060 60	p	K022		
	X	7. UN2811, WASTE TOXIC SOLIDS, ORGANIC, N.O.S., (CHROMIUM LEAD), J.1, PQ II	001	D M	ა იი60	ţs	D007	D008	
GENERATOR	X	3. UN2821, WASTE PHENOL SOLUTIONS, 8 1, 170 11 (SPENIT PHENOL GC VIALS)	99 L	D M	00150	7	0138		
GENE	x	9. UN3090, LITHIUM BATTERY, 9, PG II, UNIVERSAL WASTE	001	D M	00025	р			
		10. NON DOT REGULATED MATERIAL, (FLUORESCENT LIGHT BULBS-UNIVERSAL WASTE)	100	or.	00018	p			
l									
╟									
1	; , (' . !	pecial Handling Instructions and Additional Information (37) 1900	3	ļi		ļ	1		
3. Pi		ansporter Acknowledgment of Receipt of Materials d/Typed Name Signature					Me	onth Day	Yea
		ansporter Acknowledgment of Receipt of Materials					L		
₽	rinte	d/Typed Name Signature					Mo	onth Day	Yea
DESIGNALED FACILITY	i. Di	screpancy							
36	3. Ha	azardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and rei	ecycling systems)	3 11040			9, 11041	0	
	3	.0.11039							



∂≋ge:1 of 3

Printed Date :Mar 09, 2011

1. 以为我们是我们知识有关的	ENTAL SERVICES	● 記載式賣物理事能或組織組 影響河場時機成構及	(武武海机器引擎洞路改字等级 德斯斯拉用电话 医动脉样	电极电路 医多种 医多种	11 03 , 20 1974に 0374に 120 120 120 120 120 120 120 120 120 120		
to the same day and the day and sale and the day and the sale	INFORMATION	· · · · · · · · · · · · · · · · · · ·			Manifest Tracking Info.		
Gene	rator: Sunoco In			*******			
Ade		and Bermuda Street Na,PA 19137			003917962FLE		
EPA	ID#: PADOO	2312791		s	ales Order No: 633394658-001		
	INFORMATION						
Line Item:	Расе No:	Profile No:	Treetability Group:		LDR Disposal Category		
1.	1	L37557	NON-WASTEWA	TER	2 (This is subject to LDR.)		
EPA Waste	Code			EPA W	aste SubCategory		
0001			<u> </u>	High TO	C Ignitable Liquids		
U055				NONE			
LINE ITEM	INFORMATION		***************************************				
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category		
2.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	L339743	NON-WASTEWA	TER	2 (This is subject to LDR.)		
EPA Waste	Code			EPA W	aste SubCategory		
D001	~~~****		***********		C Ignitable Liquids		
U002U055				NONE			
LINE ITEM	INFORMATION		**************				
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Category		
3.	1	L38662	NON-WASTEWA	TER	2 (This is subject to LDR.)		
EPA Waste	Code			EPA W	aste SubCategory		
D001				'gnitable	s, except High TOC Liquids		
D003				Other rea	actives		
U09 6				NONE			
LINE ITEM	INFORMATION		age that the first read and sour company on the company on the company of the company of the company on the company				
i.ine Item:	Page No:	Profile No:	Treatability Group:	****	LDR Disposal Category		
4.	1	L375 58	NON-WASTEWA	TER	2 (This is subject to LDR.)		
EPA Waste	Code	**************************************	15 (16 G) (1 A B) (17 G) (18 G	EPA W	aste SubCategory		
X022		والمراجعة المراجعة ا	# (**	NONE			
LINE ITEM	INFORMATION	i quir mair faithr sille said said said sann agus c'un ann mar sac sac said said said said said an an an de	ية والله الله الله الله الله الله الله الل				
Line item:	Page No:	Profile No:	Treatability Group:	T 10 40 14 18 40 18 18 18 18 18 18 18 18 18 18 18 18 18	LDR Disposal Category		
,	[2	L375 60	NON-WASTEWA	TER	2 (This is subject to LDR.)		
EPA Waste	Code	recording in the section was an experience on the section when the	**************************************	EPA W	aste SubCategory		
U188				NONE			

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Land Cisposal Restriction Notification Form

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Printed Date :Mar 09, 2011

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Line item:	Page No:	Profile No:	Treatability Group:		LDR Olsposal Catego	ry			
3.	12	CH12050	NON-WASTEWAT	ER	2 (This is subject to L	CR)			
	*		7						
EPA Waste	Code			EPA Wa	ste SubCategory				
K022				NONE					
LINE ITEM	NFORMATION			4					
Line Item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Catego	Ŋ			
7.	[2	L330319	NON-WASTEWAT	ER	2 (This is subject to L	DR.)			
EPA Waste (Code			EPA Wa	ste SubCategory	***************************************			
D007				Toxicity C	haracteristic for Chromius	m			
D008									
			LDR Chemical Da	la					
			ļ	Inderlying	Constituents	Contaminants			
			<u>}</u>	azardous	of	Subject to			
Chemical			Co	onstituents	Concern	Treatment			
Chromium				Y	N	V.			
LEAD				Υ	N	N			
	NFORMATION								
Line item:	Page No:	Profile No:	Treatability Group:		LDR Disposal Catego	ry			
3.	2	L339744	NON-WASTEWAT	ER	2 (This is subject to L	DR.)			
EPA Waste	Code			EPA Wa	ste SubCategory				
U188 NONE									
			LDR Chemical Da	a					
				Indertying	Constituents	Contaminants			
				lazardous	ું ર્ગ	Subject to			
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Phenol				Υ	N	N			

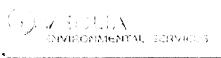


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Printed Date :Mar 09, 2011

Catification	Applies to Manifest Line Items
Pursuant to 40 CFR 268.7(a), I hereby notify that this shipment contains waste restricted under 40 CFR Part 268.	1. 2. 3. 4. 5. 3. 7. 3.
This waste is not restricted as specified in 40 CFR 268 Subpart D.	9. 10.
Waste analysis data, where available is attached. Signature: FAUY: ENGINEER Cate: Signature: Print Name MARK DUEITZE 3 9 11.	

Attachment 4A Three Years of Manifests Showing Disposal of Lead-Acid Batteries



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	X	UN2705, BATTE	ERIES, WET, FILLED	MAITH ALKALL		ļ				-	NONE					
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		4. Special Handling Instructions and Additional Information 1) W:321516 A:AERC13931-LEADZ LEAD ACID BATTERIES - UNIVERSAL WASTE 2) W: 21228 A:AER000783NJ MERCURY APPARATUS 3) W:899362 A:AERC13931-NICAD NI CAD BATTERIES - UNIVERSAL WASTE														
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DESIGNATED FACILITY	19. ∂ ∈ 1	noon Management Melhod	d Codes (i.e., codes for treatme	nt. disposal, and recycling system	ms)		(- (-			· · ·					
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		(Continuation Sheet)	BV0005		2 of 2		2200	01413	31		
	2 4 . C	Cenerator's Name	ODNOCO CHEMI	CALS							
								V			
	25.	Transporter Company Name					U.S. EPA ID	Number			
	26. 1	Fransporter Company Name	WALL III				ij.s. epa id	Number			
	27а. НМ	27b. U.S. DOT Description (including Pro and Packing Group (if any))	oper Shipping Name, Hazard Clas	s. ID Number,	28. Cont No.	ainers Type	29 Total Quantity	30. Unit Wt./Vol.	31. 0	Codes	
		5. ALKALINE BATTERIES,	DOT NON-REGULATE	ED .					NONE		
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		6. UNIVERSAL WASTE-LA	MPS						NONE		
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	B) W	/:323232 A:FL004127-U U-T	UBES- UNIVERSAL W	/ASTE							
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1	W/		1	mber	5	2. Page 1 of		ency Response		4. Manifest	racking N	umber	6 F	LE
П		nerator's Name and Mailir					Generator'	s Site Address	(if different the	han mailing addres	s)			
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	9a.	9b. U.S. DOT Descripti			d Class, ID Numbe	r,		10. Contai	ners	11. Total	12. Unit			
	HM	and Packing Group (if	any))					No.	Туре	Quantity	Wt./Vol.	13.	Waste Code	s
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П	15	GENERATOR'S/OFFERO	R'S CERTIFICATIO	N. I hereby declare th	at the contents of the	nis consignment	are fully and	d accurately de	ecribed abov	e by the noner shi	nning name	and are cla	ssified nacks	aned
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and a marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable internation.					ational and nat									
П		Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.												
		rator's/Offeror's Printed/Ty	ped Name				gnature		,			Мо	nth Day	Year
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O.F.		/'s Phone:	ity (or Consector)	****										
4TE	10C. S	ignature of Alternate Faci	ity (or Generator)									Mo I	onth Day	Year
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ESI	_	zardous Waste Report M	arragement Method	Codes (i.e., codes for h	azardous waste tre	arment, disposa	ii, and recyc	iing systems)		4.				
	,	1131		C E +3 A,		3.				7.				
	20. De	signated Facility Owner of	r Operator: Certifica	tion of receipt of hazard	lous materials cove	red by the mani	ifest except :	as noted in Item	n 18a					
	_	/Typed Name		Toolpron nozure	35310010 0070		nature					Мо	nth Day	Year
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This waste is	not restricted as	specified in 40 CFF	R 268 Subpart D.	## ~ ₩ 41 Pi ~ E *P		2.	
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360000611 Edes Organ Francis - 4274/8041 (01 Organis) 05/2009 Cornead Cv. the itemes in a HESK9J1 Contail. 1 -7 a donask Comment ENERATOR ESIGNATED FNOILITZ 1,0235 Generalor Code: Friedby EPA D # | ASCU69748192 PADW02312791 Canerator dPA O 4. Clean Harbors El Corndo LLC Faulity Hame: Generator Name: Suanco Chemicals Address: Margaret and Bermuda Street Address: 309 American Circle El Carada, AR 71/20 Philagelphia, PA 19137 (870) 863-7173 (215) 807-8442 Thone: Phone: **JANIFEST** Container Type/Description: 16DF 16 gailon drum J02095096F1.E Manufest Tracking #: Manifest Page #: Shipping Quantity 35 Pounds Hanifest Line #: OOT Shipping Name: UN2794, WASTE SATTERIES, WET, FILLED WITH ACID, 3, PG III Substance US/G Waste Codes Ray iem # D002, D008 35 Pounda ು.೧೯೦ Solid 1000000034 Lasking lead acid battery (100.00%)

Mr. Car. R

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SUNT THER 1.3 130000013 Tides Order Froix # 1882478347 cold Octavia 02/23/00 Cotomar Da MEERSJI Conated Sy: ें र ा े ्रा SAJE Laboack Comment: EE/GNATED FACILITY ENERATOR Generator Code: 11.0235 Thoulity Code: Facility EPA D# | AFID0697 18792 Generator EPAID & PAC@2312791 Generator Name: Sunoco Chemicals Fundity Name: Clean Harbors El Dorrado LLC Address: 309 American Circle Address: Margaret and Barmuda Street El Dorado, AR 71700 Philadelphia PA 19137 (215) 307-8442 Phone: (870) 363-7173 Phone: MANIFEST Container Type/Description: 190F 16 gallen dram Hanifest Tracking 4: Manifest Page #: Shipping Quantity: 35 Pounds Manifest Line #: į. OOT Shipping Name: UN2794, WASTE BATTERIES, WET, FILLED WITH ACID, 3, PG III Substance Waste Codes Gty Size US/G 1000000035 Leaking lead acid battery (160,00%) 2002, 2008 35 Pounds DUED Solid

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PARENTE SHEEP Lities Order Tisk Vi 302478341 Fol Caex09/02/2009 1-12-14 3,0000005510 Created By: VEEPS.II Castomer LP & Proplet. TBLQ Laborack Comment: CEMERATOR GESIGNATED FACILITY .00255 Cenerator Code: Thomas Code: Generator EPA Off. PAC002312791 Facility EPA D # 490069748192 Generator Name: Sunoco Chemicals Clean Marbors El Octado LLC Facility Name: ेddress: Margaret and Bermuda Street Address: 709 American Crola Miladelphia PA 19107 El Carado, AR 71730 Phone: (215) 207-0442 Phone: (370) (63-7173 WANIFEST Container Type/Description: USOF 5 gailon plastic/fiber pull Manifest Tracking #: 02996096FLE Manifest Page #: Manifest Line #: Shipping Quantity: 15 Pounds

DOT Shipping Name: UN2794, WASTE BATTERIES, WET, FILLED WITH ACID, 8, PG III

 Item #
 Bubstance
 Waste Codes
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 Size
 US/G

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 0002, 0008
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Phene:	(215) 607-8442	Phone:	(370) 863-7173
	Philadelphia, 2A 19137		d Dorado, AR 71700
\ddress:	Margaret and Bermuda Street	Address:	309 American Circle
Generator Mame:	Sauno Chemicais	Frictity Hame:	: Jean Harbors El Dorado LLC
Generator EPA/O/A	24D002312791	From EPAD &	4FID3 69748 192
Generator Cade:	:13978 5	Facility Code:	A_{\bullet}
	GENERATOR		DESIGNATED FACILITY

MANIFEST

Manifest Tracking #: 102995096FLE

Container Type/Description: (SDF 5 gallon plastic fiber pail

Manifest Page #:

3

Manifest Line #: 1. Shipping Quantity: 15 Pounds

DOT Shipping Name: UNZ/94, WASTE BATTERIES, WET, FILLED WITH ACID, S, PG III

item #	Substance	Waste Codes	Vity	Size	US/G
	Leaking lead acid battery (180.00%)		3 Pounds	3 0E0	Sold

MINIMER 1.00006609 1, Ves Order Task & 11, 2478241 (01, 0 see, 00, 02, 25, 09 1227 - EERSUL . Automort 2 A La sted Par. Property. 1 3L42 Liesgack Comment: GENERATOR DESIGNATED FACILITY Freshty Code: 9 0235 Janerator Code: PALMM2310791 Fredity EPAID # \PC069748192 Tenerator EPA (D = Generator Name: himeco Chemicals Encliny Name: Clean Harbers El Dorado LLC 19 American Carle 'Address: Address: Margaret and Bermuda Street El Domeio, AR 71750 Philadelphia, PA 19137 Phone: Phone: (215) (07 0442 (370) (363-7173 MANIFEST Container Type/Description: 65DF 5 gallon plastic/liber pail Manufest Tracking 4: 002595096FLE Manifest Page #: Manifest Line # Shipping Quantity: 15 Pounds OOT Shipping Name: ILN2794, WASTE BATTERIES, WET, FILLED WITH ACID, 8, PG III. Substance Waste Codes

0002, O008

15 Pourds

J.JEO

Solid

1000000032 Leaking lead adid badary (100 00%)



SHIPPING DOCUMENT	1. Generator	ID Number		2. Page 1 of	12/2/22	ر ت سب	Phone	4. Shipping	Z 0	1018	887	1
5. Generator's Name and N					Generator's Site	Address	(if different t	han mailing addres	ss)			
Generator's Phone:	107-4 (12)				<u> </u>			110 504 10				
6. Transporter 1 Company								U.S. EPA ID I		3 4 1	1 3 :	5 4
7. Transporter 2 Company	Name							U.S. EPA ID N	Number			
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24 G	SHIPPING DOCUMENT (Continuation Sheet) 21. Generator ID Number enerator's Name	22. Page	23. Shi	pping Documer	nt Tracking	Number	
24.0	enerator's Name			U.S. EPA ID	Number		
25. T	Transporter Company Name						
26. T	ransporter Company Name			U.S. EPA ID	Number		
	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Cor	ntainers Type	29. Total Quantity	30. Unit	31. Codes	
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36. Re	eport Management Method Codes (i.e., codes for treatment, disposal, and recycling systems)					· · · · · · · · · · · · · · · · · · ·	
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1		IIPPING CUMENT	1. Generator ID Nu			2. Page 1 of	3. Emergency Respons	e Phone	4. Shipping	Document Z 0	Tracking Num	^{ber} 109	4
		enerator's Name and Mailin	g Address	<u> 3 3 1 1 7 1</u> IOCO (DIBENIC		· · · · · · · · · · · · · · · · · · ·	Generator's Site Address	s (if different th				,	
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		GENERATOR S/OFFERO		•		•	, ,		, , ,		, and are class	sified, packag	jed,
		marked and labeled/placar	ded, and are in all r	espects in proper cond	ition for transport acco	ording to applica	ble international and na	tional governm	nental regulations.				
		erator's/Offeror's Printed/Ty	ped Name~			Signa	ature	<u> </u>		<u>_</u>	Mont	•	Year
<u>`</u> _	16. lr	AAAA Anternational Shipments	رور المالية ال المالية المالية المالي			= 16 111	District of		The state of the s		1/3	1/6	129
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Щ	18b. /	Alternate Facility (or General	ator)	· · · · · · · · · · · · · · · · · · ·			Shipping Documer	ic tracking Nu	mber: U.S. EPA ID N	lumber			
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DESIGNATED FACILITY		Signature of Alternate Facil	ity (or Generator)								Mon	th Day	Year
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	Printe	ed/Typed Name				Signa	ture				Mont	th Day	Year



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CELT	100.7	Alternate Facility (of Gener	ator)					9.5. EPA 10 N	umber			
D FA		y's Phone: Signature of Alternate Faci	lity (or Generator)							Moi	nth Day	Year
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DESIGNATED FACILITY	19. Re	eport Management Method	d Codes (i.e., codes for treatment, disp	osal, and recycling systems)	3.			4.				
		esignated Facility Owner of d/Typed Name	or Operator: Certification of receipt of sh	nipment except as noted in Ite		ature				Mor	nth Day	Year
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1		PPING CUMENT	1. Generator ID Nu		2. Page		gency Response	Phone	4. Shipping C	Occument	Tracking Numb	17°	7
	L	nerator's Name and Mailin		2312793 CO CheMiCA	<u> </u>		or's Site Address	if different th	nan mailing address		<u> </u>	<u> </u>	•
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	Gener	rator's/Offeror's Printed/Ty	ped Name			Signature,		-755			Month	,	Year
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1		IPPING CUMENT	1. Generator ID Nun	nber	2. Page 1 d		ency Response		7	7 N	Tracking Num		5
		enerator's Name and Mailin	स के अंतर अना	ICCO CHEMICALS ROARET & HERMUDA LADRUPHIA, PA 191137	<u> </u>	Generator		(if different th	an mailing address	s)			
	6. Tra	erator's Phone: 15 = 3 ensporter 1 Company Nam	ne (145.3						U.S. EPA ID N				
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	9a. HM	9b. U.S. DOT Descripti and Packing Group (if	, • .	Shipping Name, Hazard Class, ID Number	,		10. Conta No.	iners Type	11. Total Quantity	12. Unit Wt./Vol.	13. C	Codes	
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		esignated Facility Owner o	or Operator: Certificati	ion of receipt of shipment except as noted		Signature					Mon	th Day	Year
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П		Exporter, I certify that the contents of this con-										-
Ш		I certify that the waste minimization statement rator's/Offeror's Printed/Typed Name.	t identified in 40 CFR 262.27(a) (if f	am a large quantity	generator) o Signature	r(b) (it I am a sm	all quantity ge	enerator) is true.		Month	Day	Year
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	20. De	esignated Facility Owner or Operator: Certifica	ation of receipt of hazardous materia	als covered by the r	nanifest exce	pt as noted in Ite	m 18a					
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Ħ	15.	GENERATOR'S/OFFERO marked and labeled/place		N: I hereby declare that the espects in proper condition										
Ш		Exporter, I certify that the	contents of this cons	ignment conform to the ter	ms of the attached	d EPA Acknow	dedgment c	of Consent.		."	,	,		
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Sign	19.	Hazardous Waste Report N	Management Method	Codes (i.e., codes for haza	rdous waste treat		il, and recyc	cling systems)		- 1.				
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Land Cisposal Restriction Motification Form

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e man en en en en en en en en en en en en en	***************************************	Çe	ertification			Applies to Manifest Line Items			
This hazardous	debris is subje	ct to the Alternate Ti	reatment Standards of	40 CFR 2	68.45.	1.			
This waste is not restricted as specified in 40 CFR 268 Subpart D.									
Waste analysis data where available, is attached. Signature: Fitte: EVV: EVIVEE2 Date: 5-25-2011									